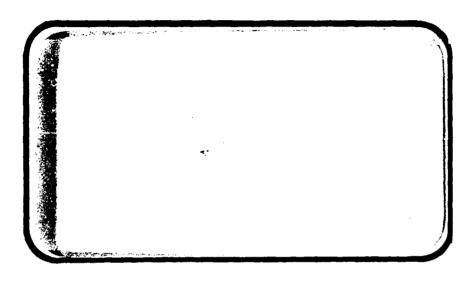


NATIONAL AERONAUTICS AND SPACE ADMINISTRATION



NASA-CR-128783) HYPERSONIC PERFORMANCE.
STABILITY AND CONTROL CHARACTERISTICS OF
A .0075 SCALE MODEL ROCKWELL
INTERNATIONAL 0898-1398 ORBITER (Chrysler
COCP.) 105 p HC \$7.25
CSCL 228

N74-12517

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SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT

JOHNSON SPACE CENTER

HOUSTON, TEXAS

DATA MANagement services

SPACE DIVISION CHRYSLER

DMS-DR-2066 NASA-CR-128,783

HYPERSONIC PERFORMANCE, STABILITY AND CONTROL CHARACTERISTICS OF A .0075 SCALE MODEL ROCKWELL INTERNATIONAL 089B-139B ORBITER CONFIGURATION

Ву

R. W. Powell, NASA/LaRC T. A. Blackstock, NASA/LaRC

Prepared under NASA Contract Number NAS5-13247

bу

Data Management Services Chrysler Corporation Space Division New Orleans, La. 70189

for

Engineering Analysis Division

Johnson Space Center National Aeronautics and Space Administration Houston, Texas

WIND TUNNEL TEST SPECIFICS:

Test Number:

LaRC CFHT 96

NASA Series No.:

LA-1i

Date:

July 11-20, 1973; 40 Occ. Hr.

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This document has been prepared by:

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B. J. Burst Data Operations

This document has been reviewed and is approved for release.

FCR N. D. Kemp Data Management Services

Chrysler Corporation Space Division esemes no responsibility for the data presented herein other than its display characteristics.

HYPERSONIC PERFORMANCE, STABILITY AND CONTROL CHARACTERISTICS

OF A .0075 SCALE MODEL ROCKWELL INTERNATIONAL 089B-139B

ORBITER CONFIGURATION

Ву

R. W. Powell & T. A. Blackstock

SUMMARY

An investigation was made in the Langley Continuous Flow Hypersonic Tunnel at a Mach Number of 10.3 to study the hypersonic aerodynamic characteristics of a Rockwell International shuttle orbiter configuration. Tests were made at a Reynolds number of .79 x 10^6 based on body length with an angle-of-attack range of 10° to 35° and sideslip variations of $+1^\circ$ to -9° . The effects of elevon and body flap deflection were investigated.

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INDEX OF DATA FIGURES

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311111	PLOTTED	VARYING	PAGES
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Basic Aerodynamic Characteristics in Sideslip	Q	ALPHA	
٥٠, د .			17-18
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+100 % =			23-24
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= -300 40 =			29-30
-30°, 4 8 =			31-32

INDEX OF DATA FIGURES (CONTINUED)

Effect of Control Deflections in Sideslip (a = 10°) (a = 15°) (a = 20°) (a = 25°) (a = 25°) (a = 35°) (a = 35°)	מדרות ב	SCHEDULE OF COEFFICIENTS PLOTTED	CONDITIONS	PAGES
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	(8 = 100)			33-34
	(21 2)			35-36
	((T = b)			37-38
	(02 = 20)			39-40
	(a = 25°)			71-45
	(a = 30°)			44-84
	$(\alpha = 35^{\circ})$)

SCHEDULE OF COEFFICIENTS PLOTTED:

- A) CN, CL, CIM, L/D, CA, CD vs. ALPHA CN, CL vs. CIM; CD vs. CL
- B) DCY/DB, DCYNDB, LCBLDB vs. ALPHA
- c) DCY/DA, DCYNDA, DCBLDA vs. ALPHA
- D) CN, CA, CIM, CY, CYN, CBL VS. BETA

NOMENCLATURE General

SYMBOL	SADSAC SYMBOL	DEFINITION
8	<u> </u>	speed of sound; m/sec, ft/sec
C _p	CP	pressure coefficient; $(p_l - p_{\infty})/q$
M	масн	Mach number; V/a
p		pressure; N/m ² , psf
q	Q(NSM) Q(PSF)	dynamic pressure; 1/2pV ² , N/m ² , psf
rn/l	\mathtt{RN}/\mathtt{L}	unit Reynolds number; per m, per ft
V		velocity; m/sec, ft/sec
α	ALPHA	angle of attack, degrees
β	PETA	angle of sideslip, degrees
ψ	PSI	angle of yaw, degrees
φ	PHI	angle of roll, degrees
P		mass density; kg/m3, slugs/ft3
•		Reference & C.G. Definitions
Ab 、		base area; m ² , ft ²
b.	BREF	wing span or reference span; m, ft
c.g.		center of gravity
L _{REF} c	LREF	reference length or wing mean aerodynamic chord; m, ft
S	SREF	wing area or reference area; m ² , ft ²
J	MRP	moment reference point
	XMRP	moment reference point on X axis
	YMRP	moment reference point on Y axis
	ZMRP	moment reference point on Z axis
SUBSCI t 1 s t	RIPTS	base local static conditions total conditions free stream

NOMENCLATURE (Continued) Body-Axis System

SYMBOL	SADSAC SYMBOL	DEFINITION
$C_{\mathbb{N}}$	CIN	normal-force coefficient. normal force qS
C_{A}	CA	exial-force coefficient; $\frac{\text{axial force}}{qS}$
$c_{\mathbf{Y}}$	СҮ	side-force coefficient; side force
CAb	CAB	base-force coefficient; base force q^S
		$-A_b(p_b - p_\infty)/qS$
$\mathtt{c}_{\mathtt{A}_{\mathbf{f}}}$	CAF	forebody axial force coefficient, c_{A} - $c_{A_{b}}$
C _m	CLM	pitching-moment coefficient; pitching moment qs/REF
C_{r_1}	CYN	yawing-moment coefficient; yawing moment qSb
c 1	CBL	rolling-moment coefficient; rolling moment qSb
		Stability-Axis System
$^{\mathtt{C}_{\mathbf{L}}}$	CL	lift coefficient; $\frac{\text{lift}}{\text{qS}}$
c_D	CD	drag coefficient; <u>drag</u> qS
c_{D_b}	CDB	base-drag coefficient; base drag
$c_{\mathtt{D}_{\mathbf{f}}}$	CDF	forebody drag coefficient; $C_D - C_{D_D}$
$\mathtt{c}_{\mathbf{Y}}$	CY	side-force coefficient; side force
C _m	CLM	pitching-moment coefficient; pitching moment qs/REF
C,	CLN	yawing-moment coefficient; yawing moment qSb
્રા	csr	rolling-moment coefficient; rolling moment qSb
L/D	L/D	lift-to-dreg ratio; C _L /C _D

NOMENCLATURE (Concluded)

ADDITIONS TO STANDARD LIST

SYMBOL	PLOT SYMBOL	DEFINITION
$\mathtt{C}_{\mathtt{Y}}oldsymbol{eta}$	DCY/DB	side force coefficient derivative with sideslip angle, $\partial C \gamma / \partial \beta$, per degree
$^{ extsf{C}_{ ext{n}}}oldsymbol{eta}$	DCYNDB	yawing moment coefficient derivative with sideslip angle, $\partial C_{\rm n}/\partial \pmb{\beta}$, per degree
$^{ ext{C}}\!$	DCBLDB	rolling moment coefficient derivative with sideslip angle, $\partial C \hat{l}/\partial \beta$, per degree
C _Y	DCY/DA	side force coefficient derivative with aileron deflection, $\partial C_Y/\partial \delta_a$, per degree
$^{\mathrm{C}}\mathrm{n}_{oldsymbol{\delta}}$ a	D CYN DA	yawing moment coefficient derivative with aileron deflection, $\partial C_{\rm n}/\partial \delta_{\rm a}$, per degree
c lø a	DC BL DA	rolling moment coefficient derivative with aileron deflection, $\partial C \ell / \partial \delta_a$, per degree
δ e _T ,	-	left elevon deflection, trailing edge down positive
δe _R	-	right elevon deflection, trailing edge down positive
ð a	AILRON	elevon deflection for roll control $[(\delta e_L - \delta e_R)/2]$, degrees
ð e	ELEVTR	elevon deflection for pitch control, $\left[(\delta_{\text{eL}} + \delta_{\text{eR}})/2\right]$, degrees
$oldsymbol{\delta}_{ ext{BF}}$	BDFLAP	body flap deflection, trailing edge down positive, degrees

TEST FACILITY DESCRIPTION

The Mach 10 nozzle of the Langley continuous flow hypersonic tunnel is designed to operate at stagnation pressures of 15 to 150 atmospheres at temperatures up to 1960°R. Air is preheated electrically by passing through a multi-tube heater. The nozzle has a 31-inch square test section which incorporates a moveable second minimum. Continuous operation is achieved by passing the air through a series of compressors. Additional information on this facility is given in NASA TM X-1130 — itled, "Characteristics of Major Active Wind Tunnels at the Langley Research Center," by William T.Schaefer, Jr.

CONFIGURATION INVESTIGATED

The configuration tested was a 0.0075 scale model of a blend of Rockwell International shuttle configurations. The model consisted of a 089B configuration with a 139B configuration nose forward of F.S. 500. A sketch of the model is shown in figure 2. All of the tests were made with the rudder flared to form a 10° wedge vertical tail. Tests were made with elevon deflections ranging from +10° to -40° and body flap deflections of 0° and -14.25°.

DATA REDUCTION

A Larc 2019A six-component strain gage balance was used to measure orbiter aerodynamic forces and moments. All data are presented about a

center of gravity located at 65 percent of the body length. Data were converted to standard NASA coefficients using the following constants:

Reference area, S_{ref} = wing planform area = 21.7886 sq. in.

Reference length, \bar{c} = wing mean aerodynamic chord = 3.561 in.

Reference span, $b_{ref} = wing span = 7.025 in.$

TABLE I. TEST CONDITIONS

MACH NUMBER	REYNOLDS NUMBER (per unit length)	DYNAMIC PRESSURE (pounds/sq. inch)	STAGNATION TEMPERATUR (degrees Fahrenheit)
10.3	.95 x 10 ⁶	1.05	1380
BALANCE UTILIZED:	Larc 2019A		
	CAPACITY:	ACCURACY:	COEFFICIENT TOLERANCE:
NF	70 lbs	.35	.015
SF	25 lbs	.125	005
AF	15 lbs	075	003
PM	70 In-lbs	35	.004
RM	25 In-lbs	.125	.0005
YM	15 In-lbs	.075	

TABLE II.

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		COEFFIC	31 31 COEFFICE

TABLE III. MODEL DIMENSIONAL DATA

MODEL COMPONENT : BODY - 089B-139B (Mo	dified Nose)	
GENERAL DESCRIPTION Nose section from	full-scale sta	tion 238.0 to
STA. 500 from NAR drawing VL70-000139B.	Remaining body	AFT of STA 500
from NAR drawing VL70-000093		
Scale Model = .0075		
DRAWING NUMBER: VL70-000093		
DIMENSIONS :	FULL SCALE	MODEL SCALE

DIMENSIONS:	FULL SCALE	MODEL SCALE
Length	1290.3	9.677
Max Width	265.0	1.988
Max Depth	248.0	1.860
Fineness Ratio	4.869	4.869
. Area	456.40	.02567
Max. Cross-Sectional	470.40	.02,01
Planform		
Wetted		
Base		

TABLE III. MODEL COMPONENT DIMENSIONAL DATA (CONTINUED)

MODEL COMPONENT: ELEVON		
GENERAL DESCRIPTION: CONFIGURATION PER LINES DATA FOR (1) OF (2) SIDES	VL70-000093	
MODEL SCALE = .0075		
DRAWING NUMBER: VL70-000093		
DIMENSIONS:	FULL-SCALE	MODEL SCALE
Area	205.517	_0116
Span (equivalent)	353.34	2.650
Inb'd equivalent chord	114.78	.861
Outb'd equivalent chord	55.00	.413
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	208	.208
At Outb'd equiv. chord		
Sweep Back Angles, degrees	·	
Leading Edge	0.00	0.00
Trailing Edge	-10.02	-10.02
Hingeline	0.00	0.00
Area Moment (Normal to hinge line)-ft3	1548.07	.000653

TABLE III. MODEL COMPONENT DIMENSIONAL DATA (CONTINUED)

MODEL COMPONENT: WING		
GENERAL DESCRIPTION: Orbiter Configuration per	Lines VL70-000093.	
NOTE: (Dihedral angle is defined at the lower		
75.33% element line projected into a p		
SCALE MODEL = .0075		
BORIE ROSEE - 1001)		
DRAWING NUMBER: VL70-000093		
<u>DIMENSIONS</u> :	FULL-SCALE	MODEL SCALE
TOTAL DATA		
Planform Wetted Span (equivalent) Aspect Ratio Rate of Taper Taper Ratio Dihedral Angle, degrees Incidence Angle, degrees Aerodynamic Twist, degrees Toe-In Angle Cant Angle Sweep Back Angles, degrees Leading Edge Trailing Edge 0.25 Element Line Chords: Root (Wing Sta. 0.0) Tip, (equivalent) MAC Fus. Sta. of .25 MAC W.P. of .25 MAC	2690.00 936.68 2.265 1.177 0.200 3.500 3.000 +3.000 -10.24 35.209 689.24 137.85 474.81 1136.89 299.20 182.13	.1513 7.025 2.265 1.177 0.200 3.500 3.000 +3.000 -10.24 35.209 5.169 1.034 3.561 8.527 2.244 1.366
Airfoil Section Root Tip		
EXPOSED DATA		—
Area Span, (equivalent) Aspect Ratio Taper Ratio Chords	1752.29 720.68 2.058 0.2451	.0986 5.405 2.058 0.2451
Root Tip MAC Fus. Sta. of .25 MAC W.P. of .25 MAC B.L. of .25 MAC	562.40 137.85 393.03 1185.31 300.20 143.76	4.218 1.034 2.948 8.890 2.252 1.078

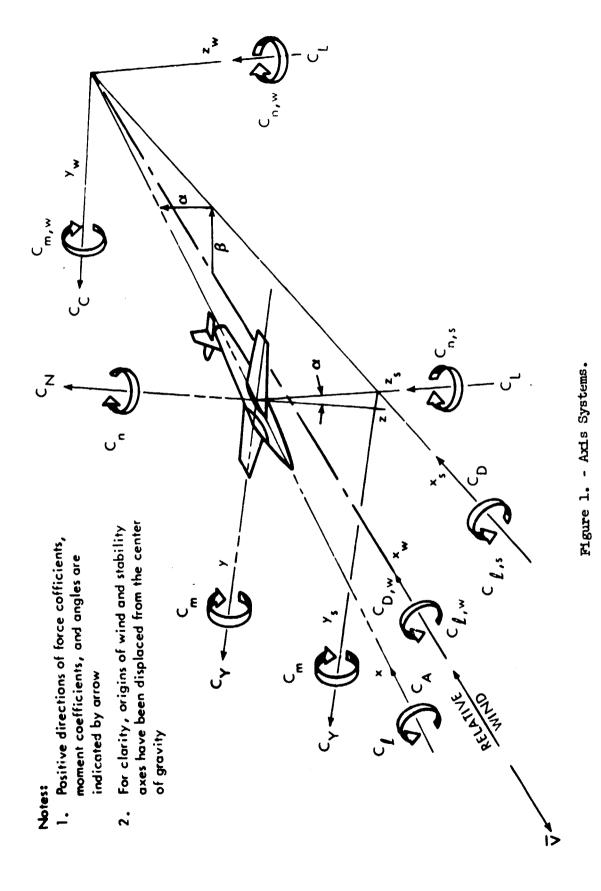
TABLE III. MODEL COMPONENT DIMENSIONAL DATA (CONTINUED)

L

MODEL COMPONENT: Vertical Tail		
GENERAL DESCRIPTION: Centerline vertical tail rounded leading edge.	double wedge air	foil with
Scale Model = .0075		
DRAWING NUMBER: VL70-000095		
DIMENSIONS:	FULL-SCALE	MODEL SCALE
Area	413.25	.0232
Span (equivalent)	315.72	2.368
Inb'd equivalent chord	·2 68. 50	2.014
Outb'd equivalent chord	108.47	814
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord		
At Outb'd equiv. chord		
Sweep Back Angles, degrees).e
Leading Edge	45	45
Trailing Edge	26.249	26.249
Hingeline		
Area Moment (Normal to hinge line)		

TABLE III. MODEL COMPONENT DIMENSIONAL DATA (CONCLUDED)

MODEL COMPONENT: RUDDER		
GENERAL DESCRIPTION: CONFIGURATION PER	R LINES V170-000095	
SCALE MODEL = .0075		
DRAWING NUMBER: VL70-00009	95	
DIMENSIONS:	FULL-SCALE	MODEL SCALE
Area .	106.38	_00598
Span (equivalent)	201.0	1.508
Inb'd equivalent chord	<u>· 91.585</u>	687
Outb'd equivalent chord	50_833	381
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	0.400	0.400
At Outb'd equiv. chord	0.400	0.400
Sweep Back Angles, degrees		
Leading Edge	34.83	34.83
Trailing Edge	26.25	26.25
Hingeline	34.83	34.83
Area Moment (Normal to hinge li	ne)-ft ³ <u>526.125</u>	_000555



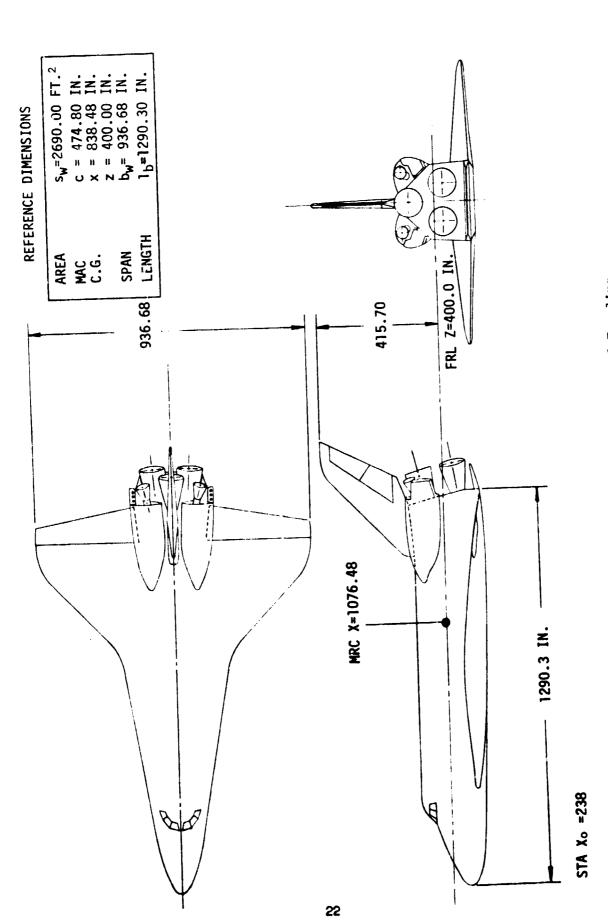
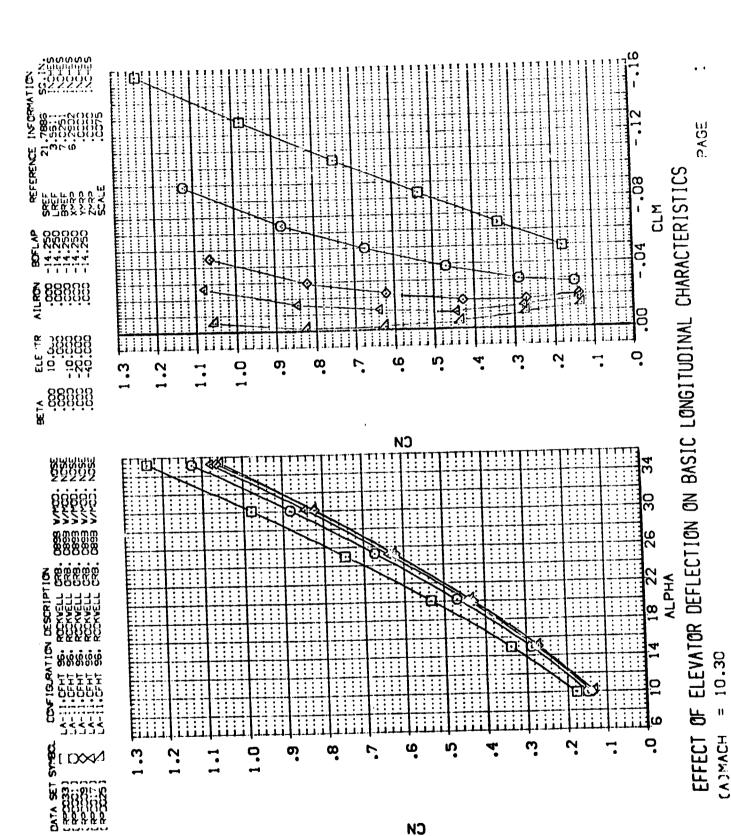
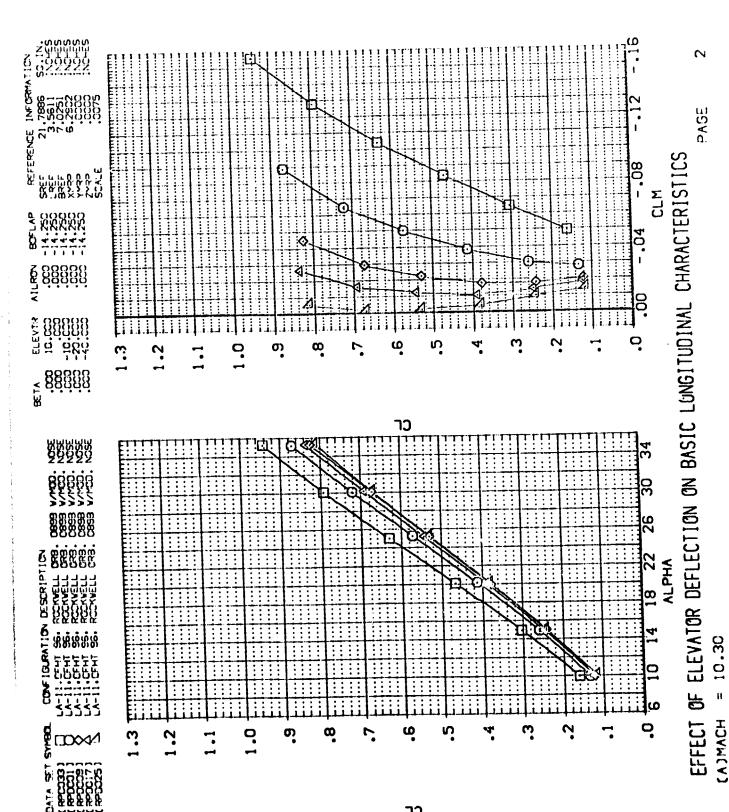


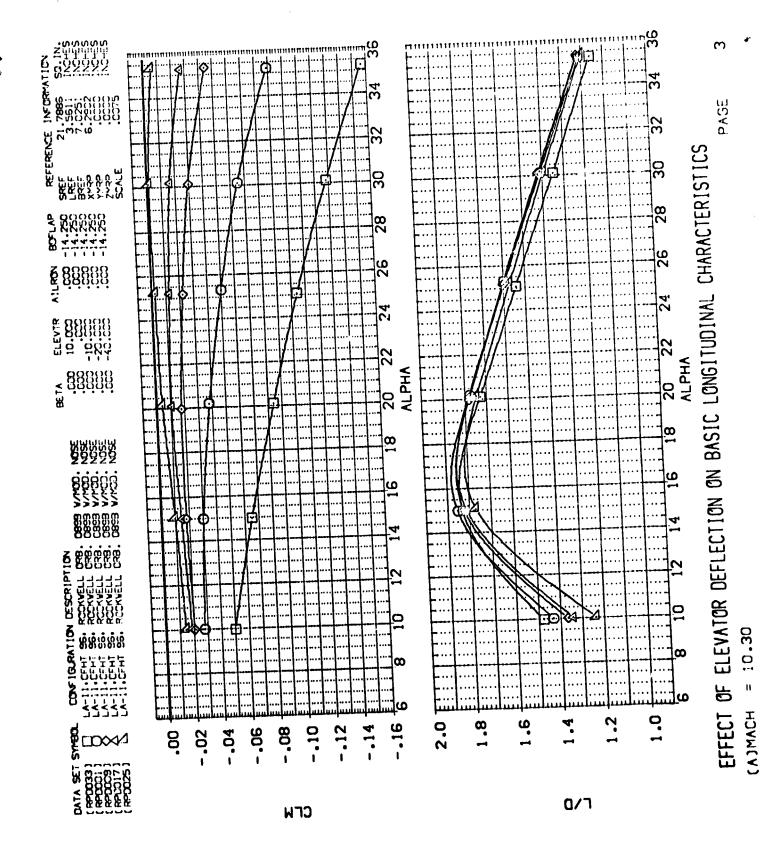
Figure 2. - SSV Orbiter Configuration 3 Baseline.

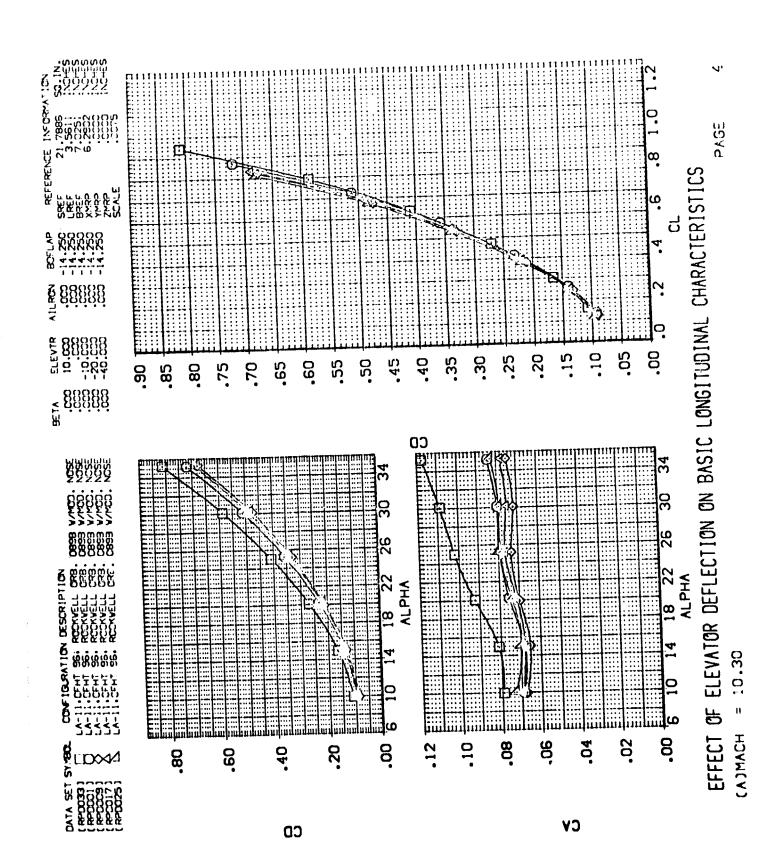
DATA FIGURES



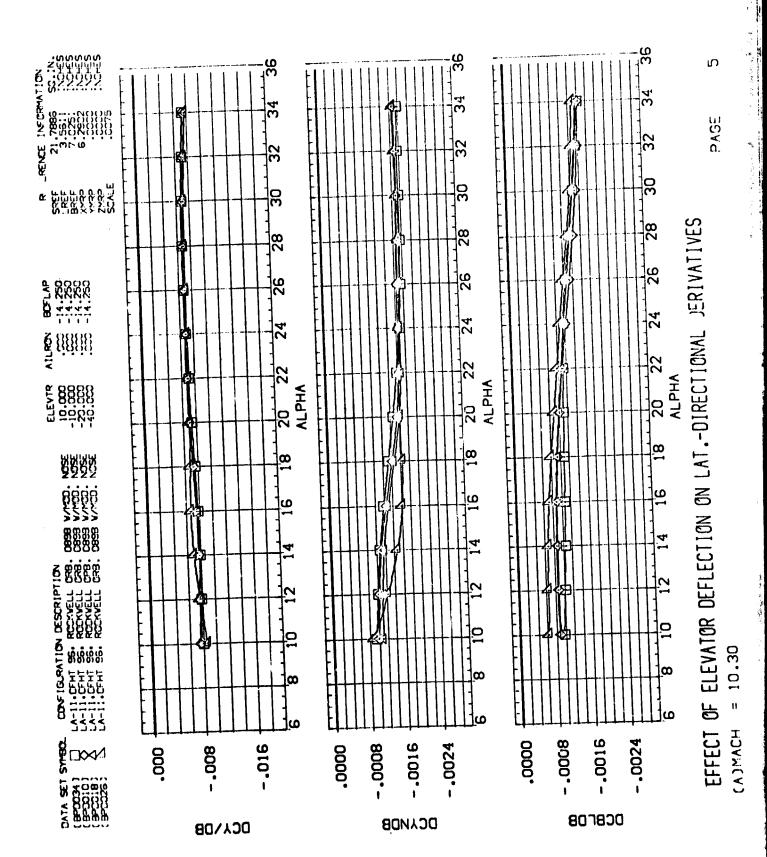
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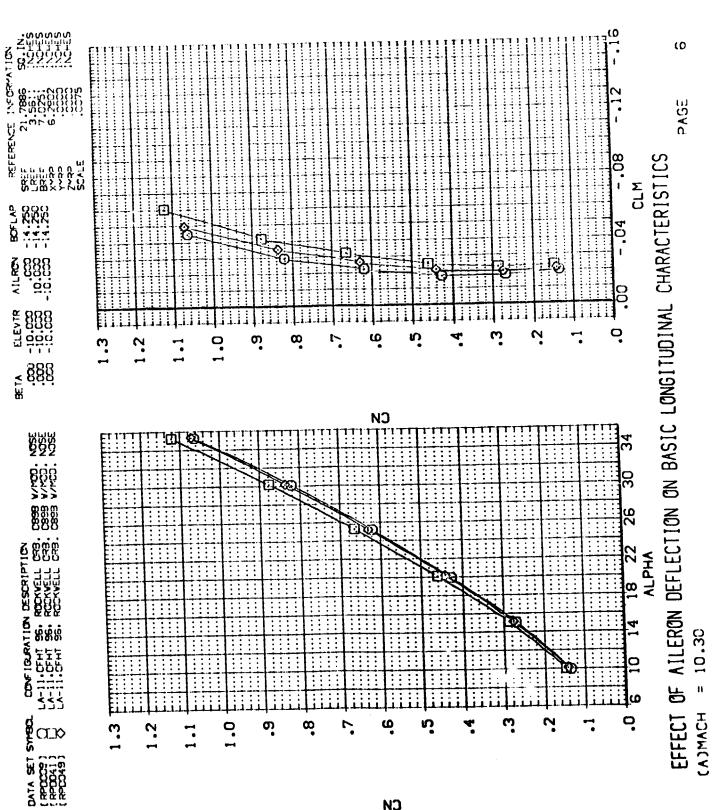


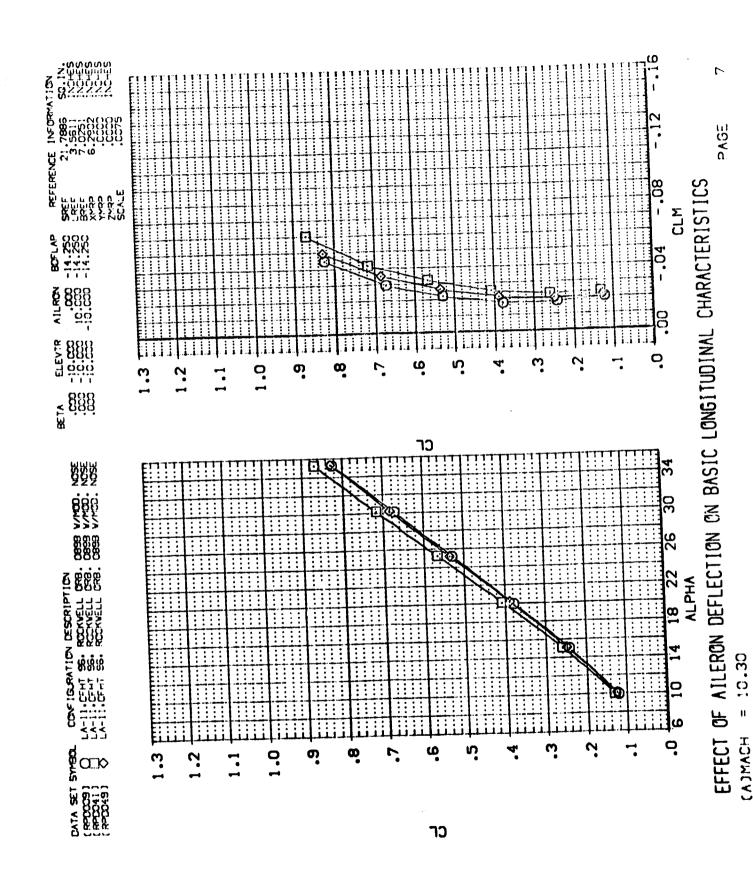




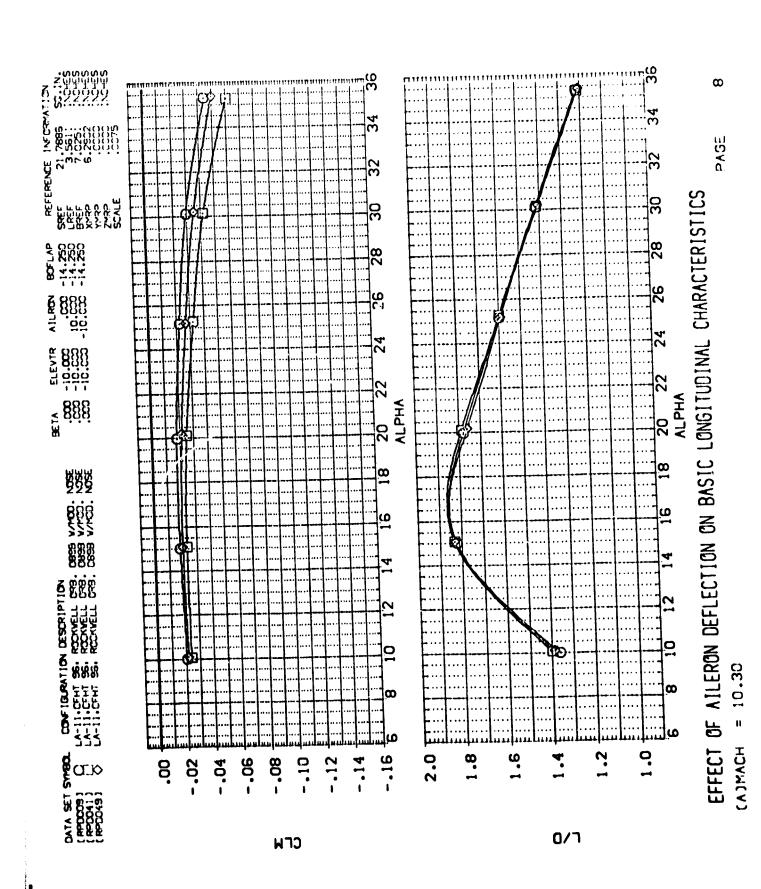
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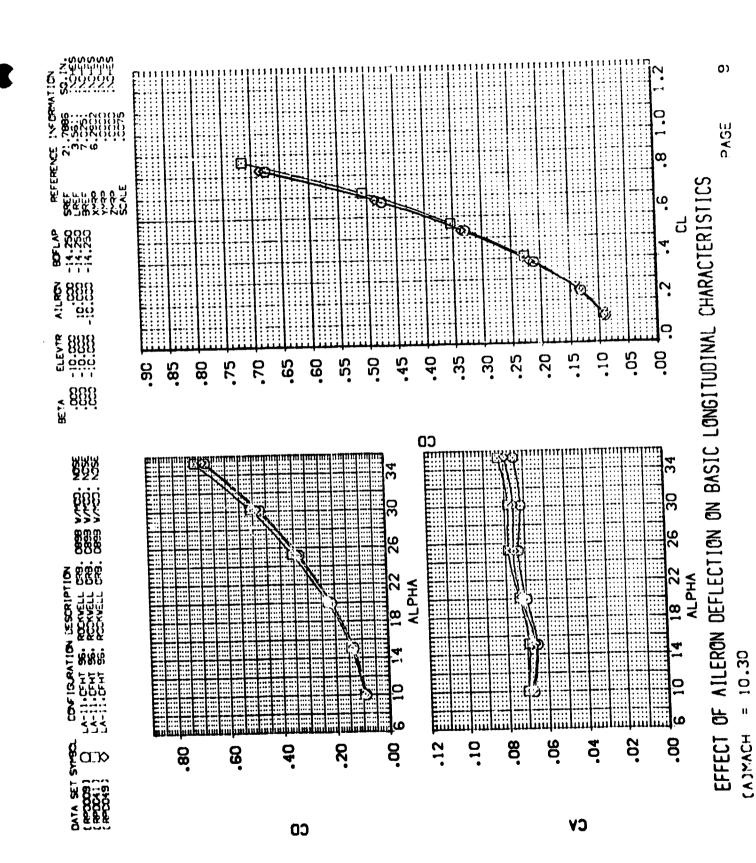


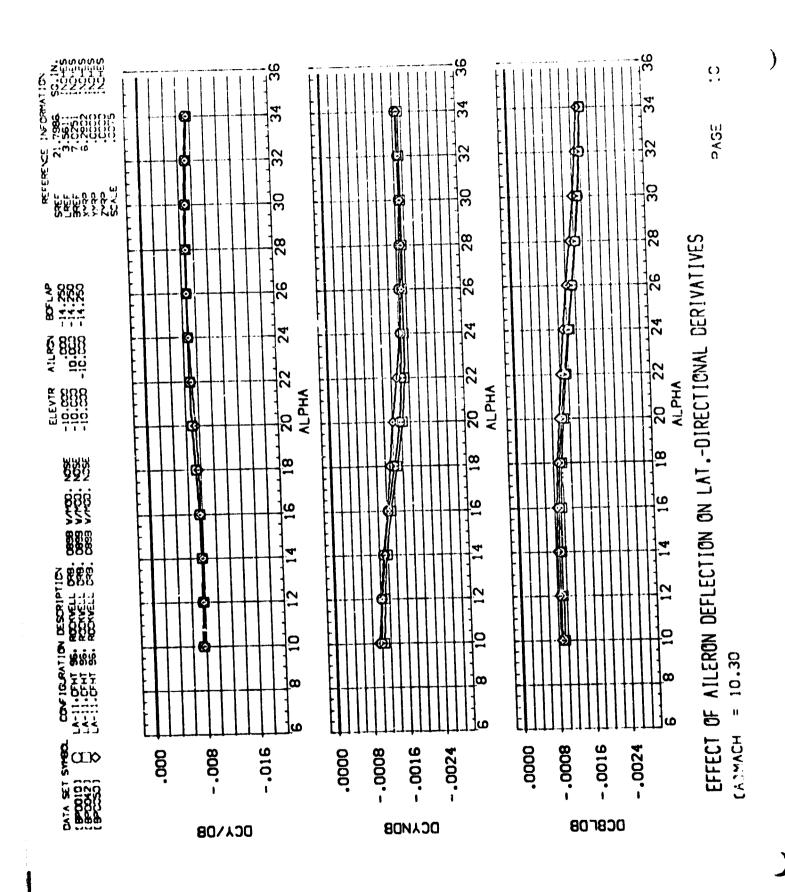


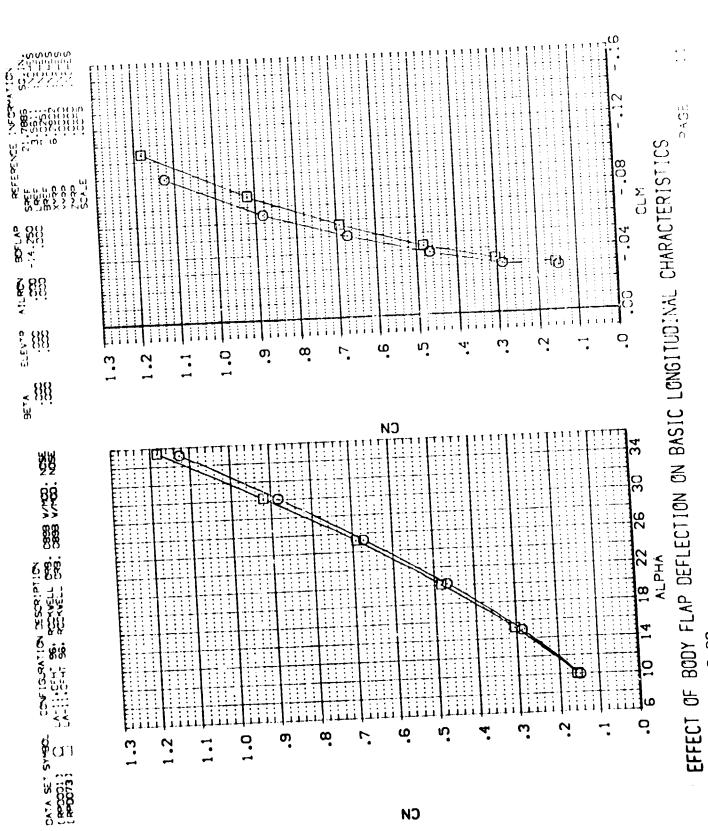


Andrew Art.



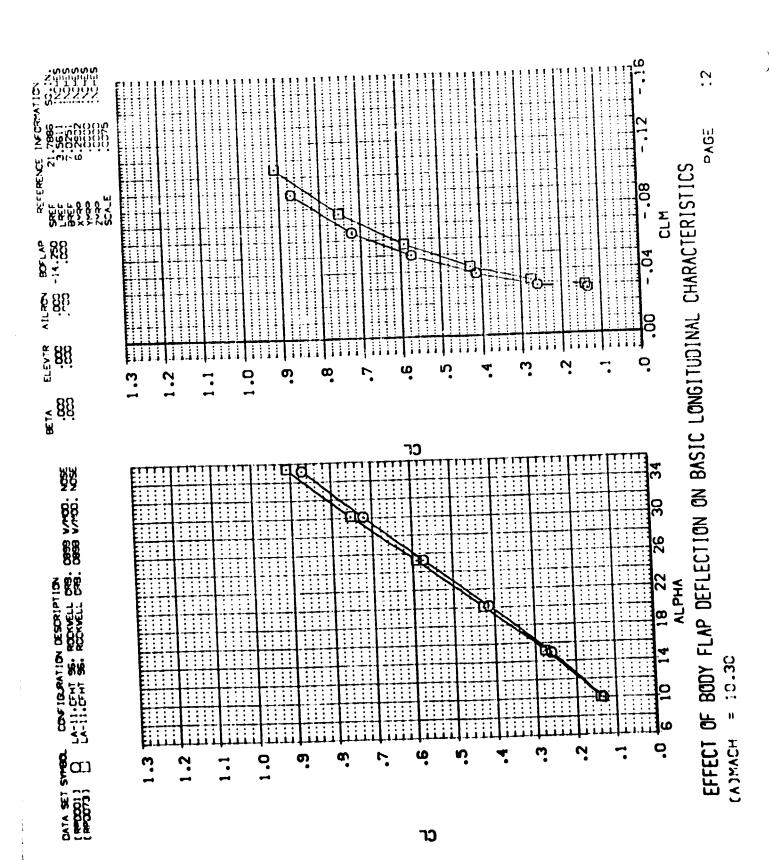


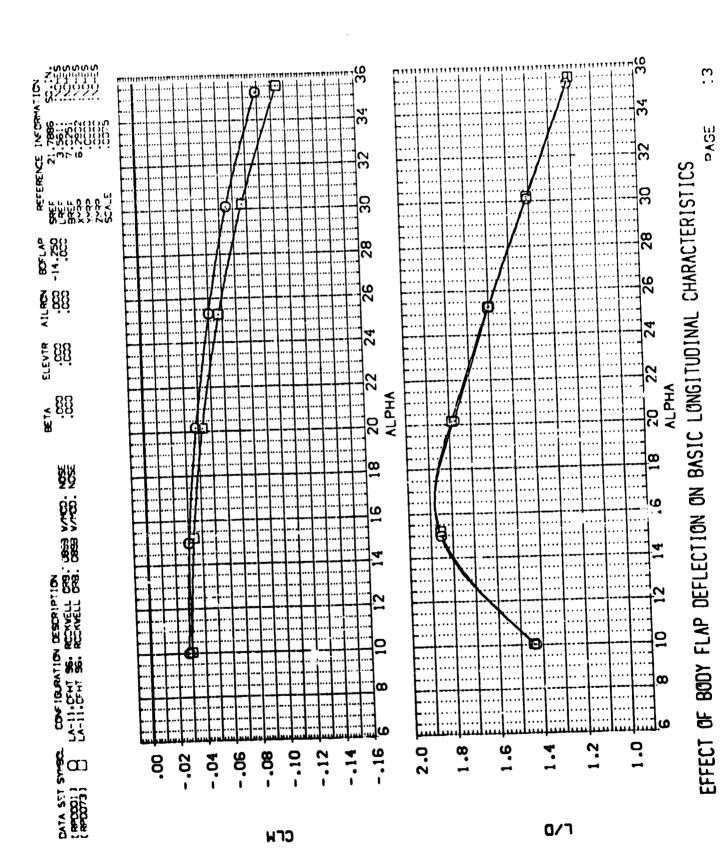




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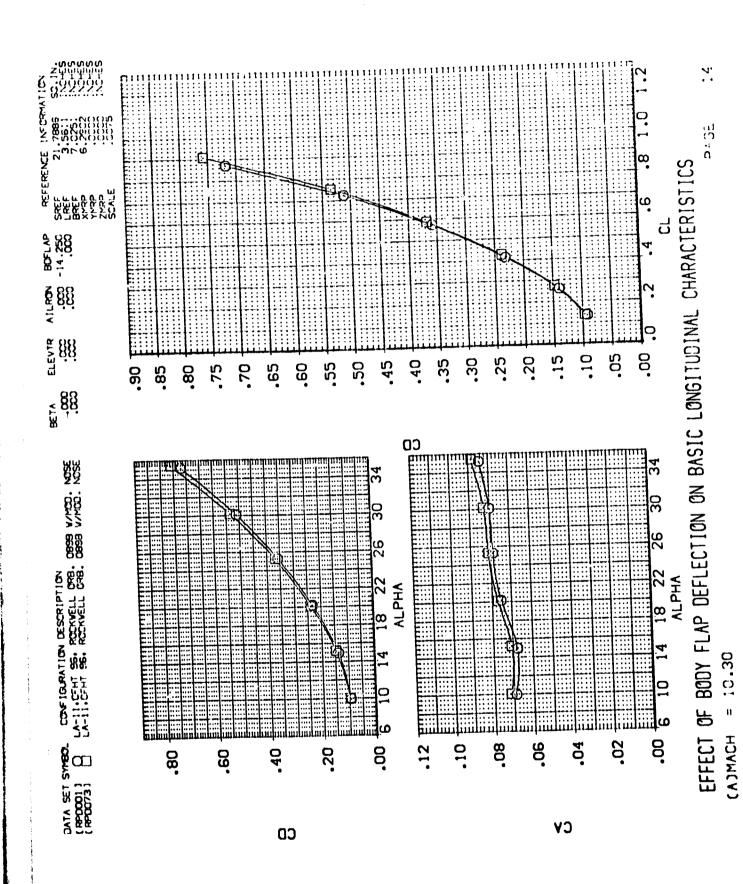
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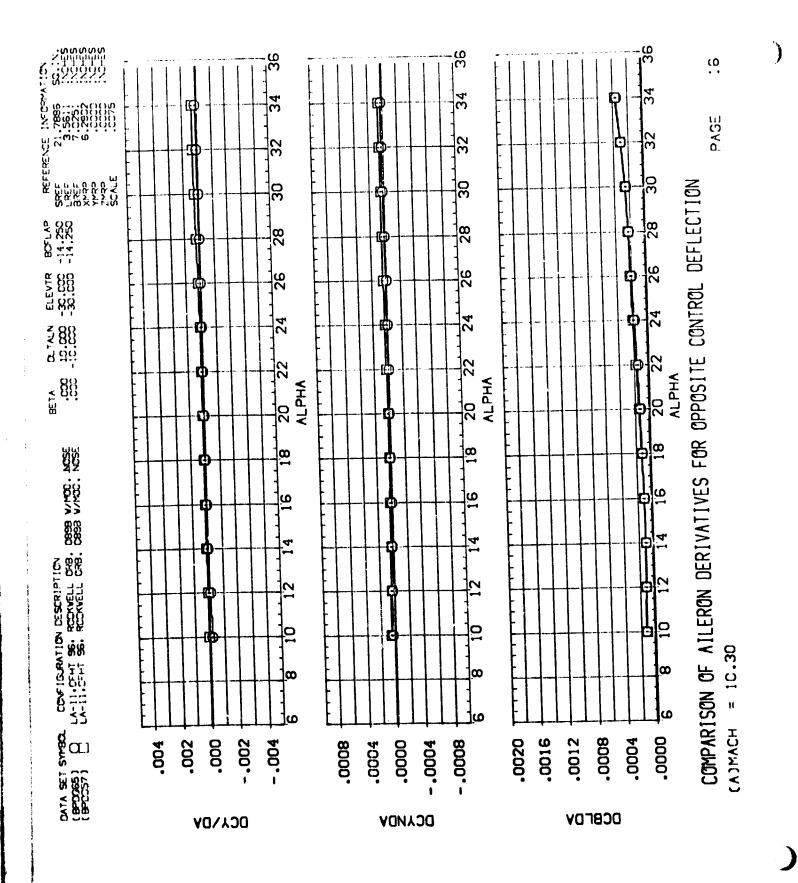
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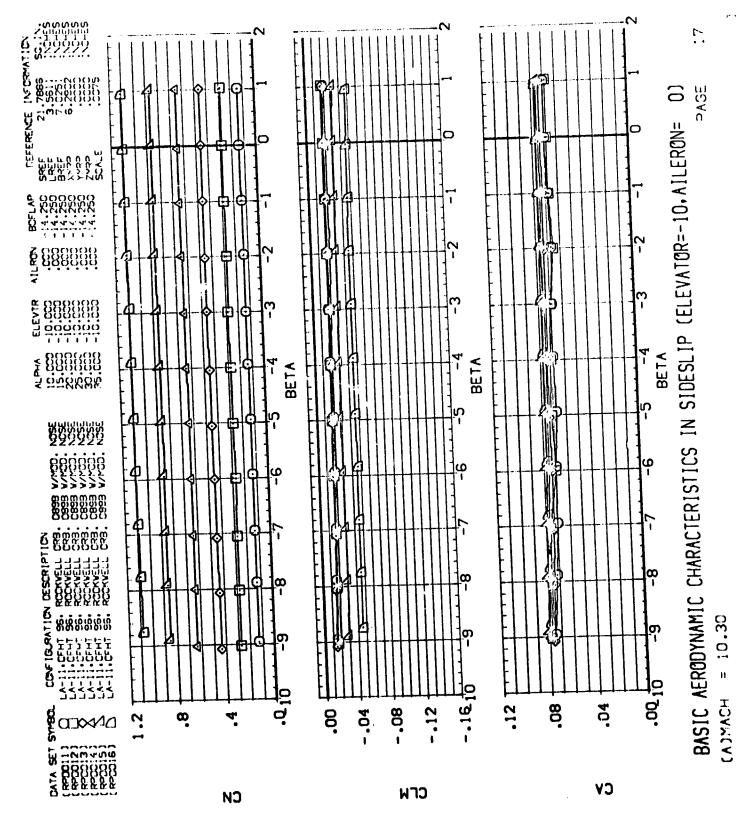
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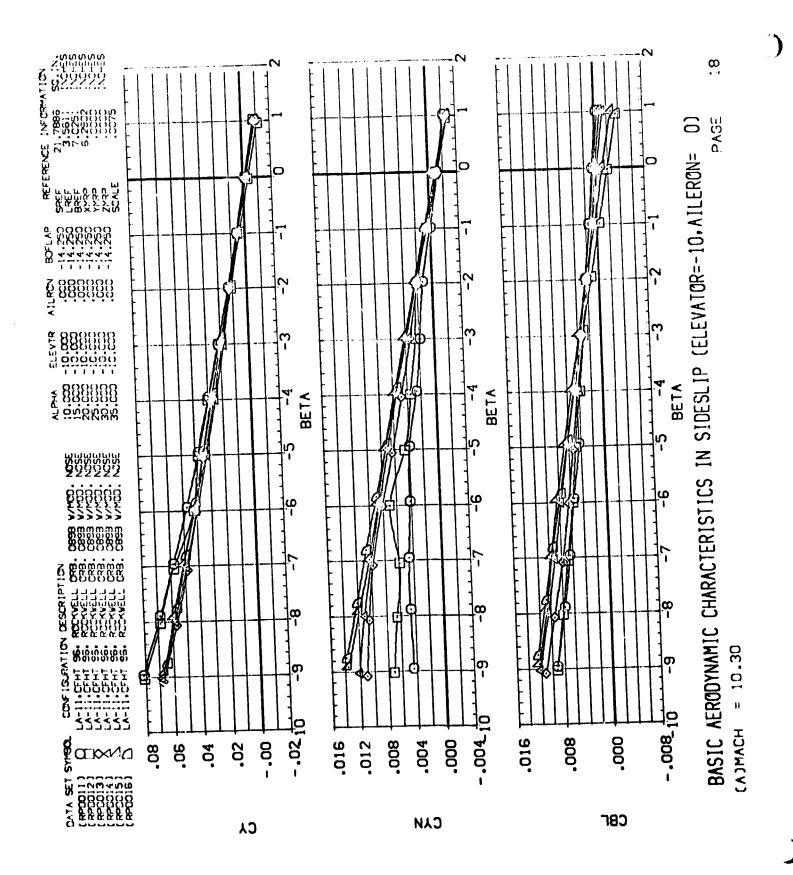
ί, PEFERENCE INFORMATION 2011N-2017886 SG.1N-201781 INDEED 201781 INDEED 20 34 34 q PAGE 32 32 0 COMPARISON OF AILERON DERIVATIVES FOR OPPOSITE CONTROL DEFLECTION SACAL STATE фф 90 28 90FL/P -14.250 28 ϕ 26 ETALN ELEVTR 中 Q; ALPHA ALPHA ₹ 86 ALPHA 18 8 18 CONFIGURATION DESCRIPTION
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LA-11.CFHT 96. ROCKVELL CR3. D893 V/MCD. NOSE 16 9 16 7 1,5 10 2 (A)MACH = 10.30 Ø DATA SET SMBOL (870041) 0000 .0020 .0016 .0012 9000 .0004 -.0004 -.002 .0008 0000 -.004 .0004 -.0008 000 .004 .002 DCBCDV DCANDY DCX\DV

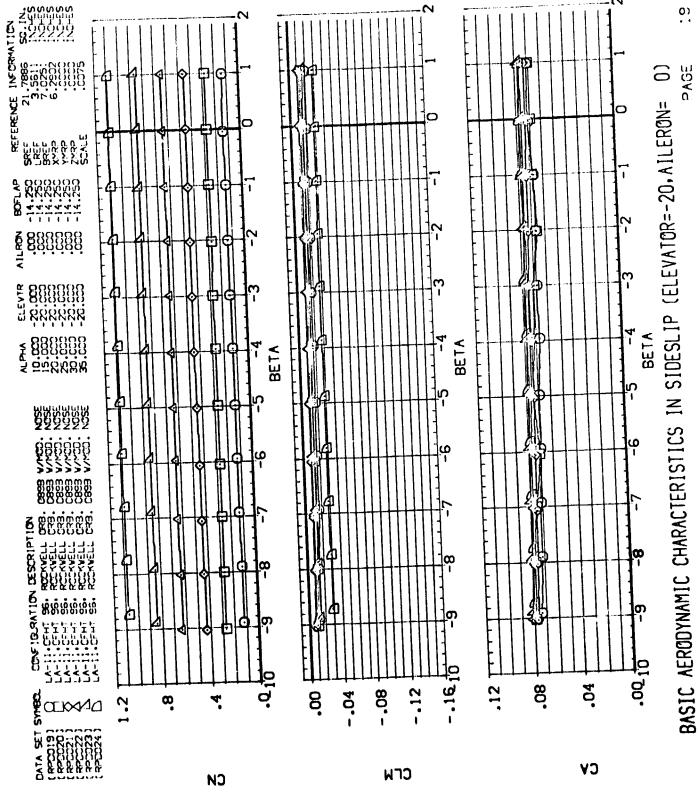
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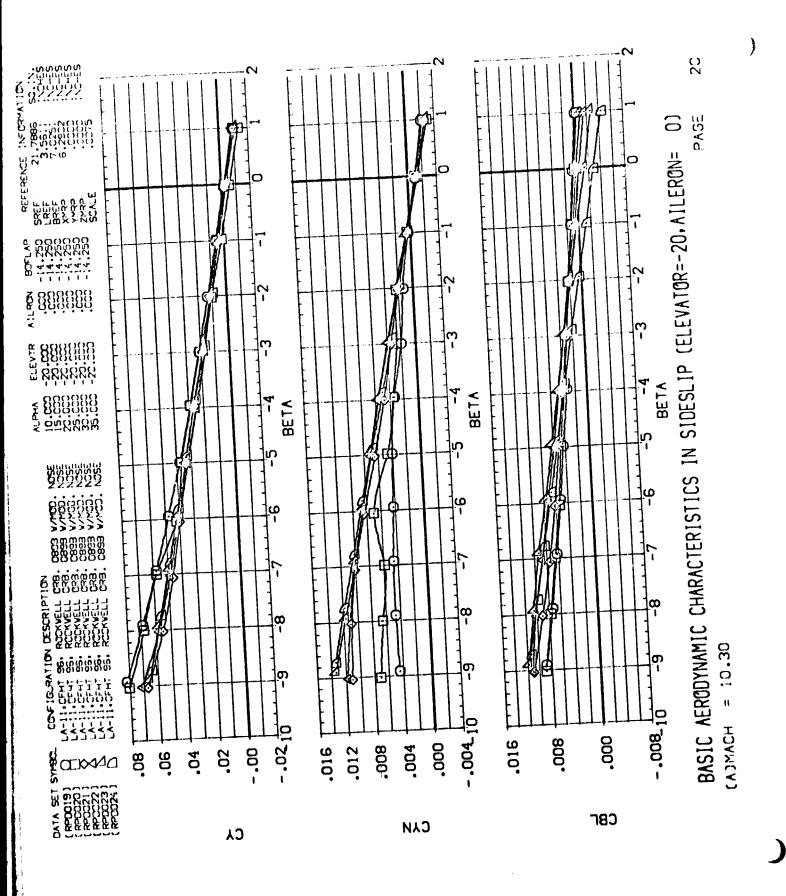


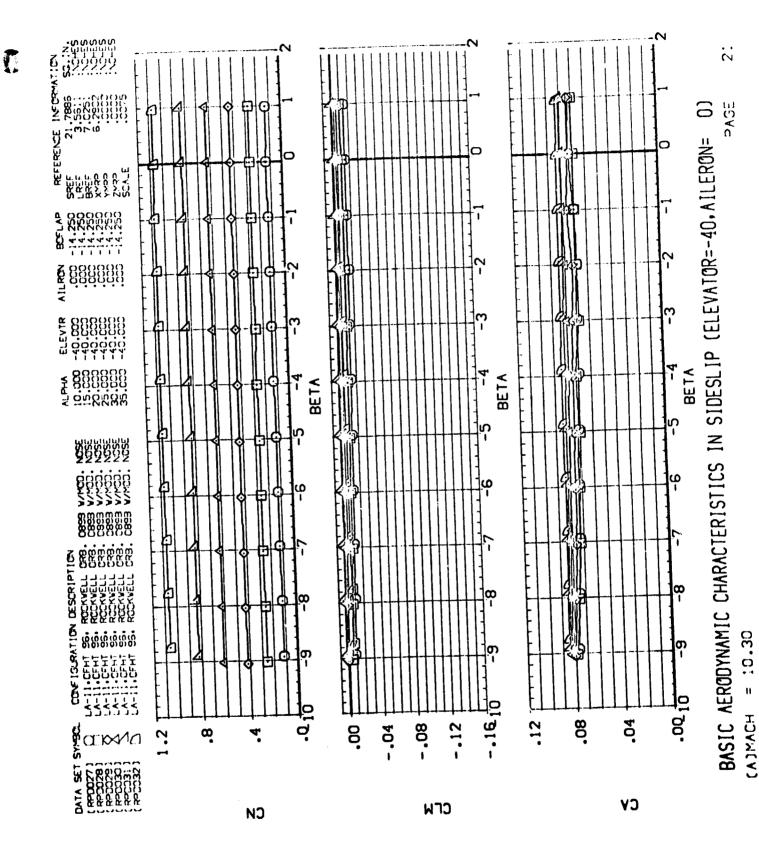


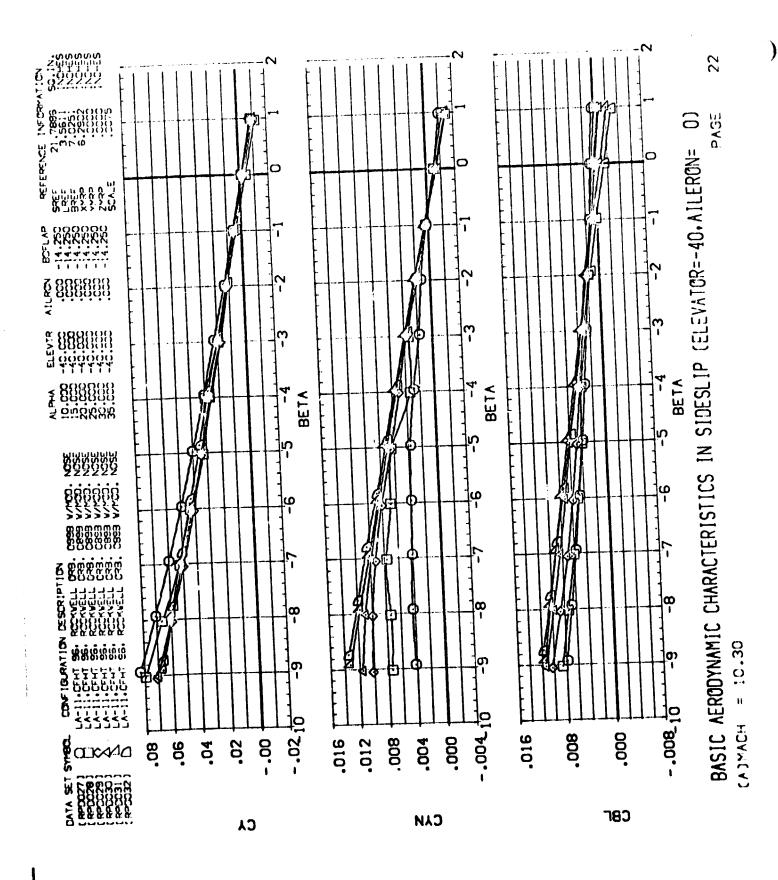


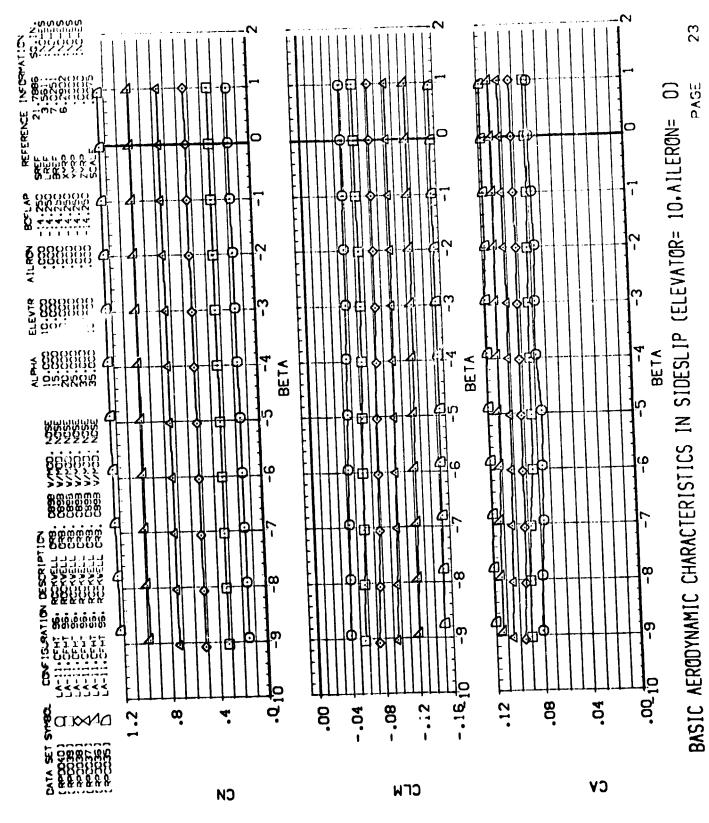
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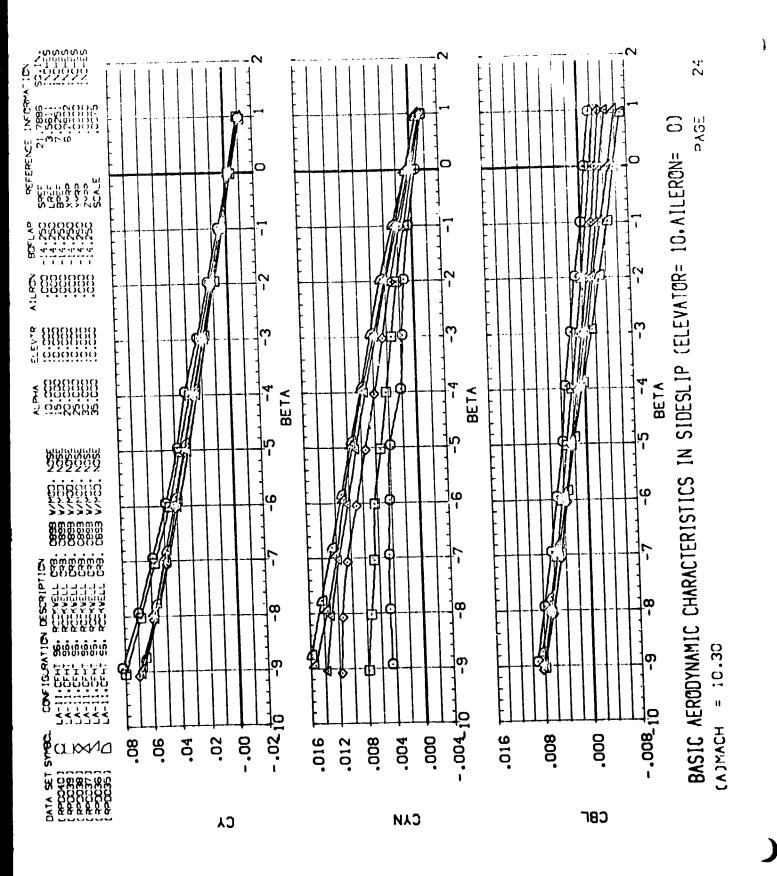


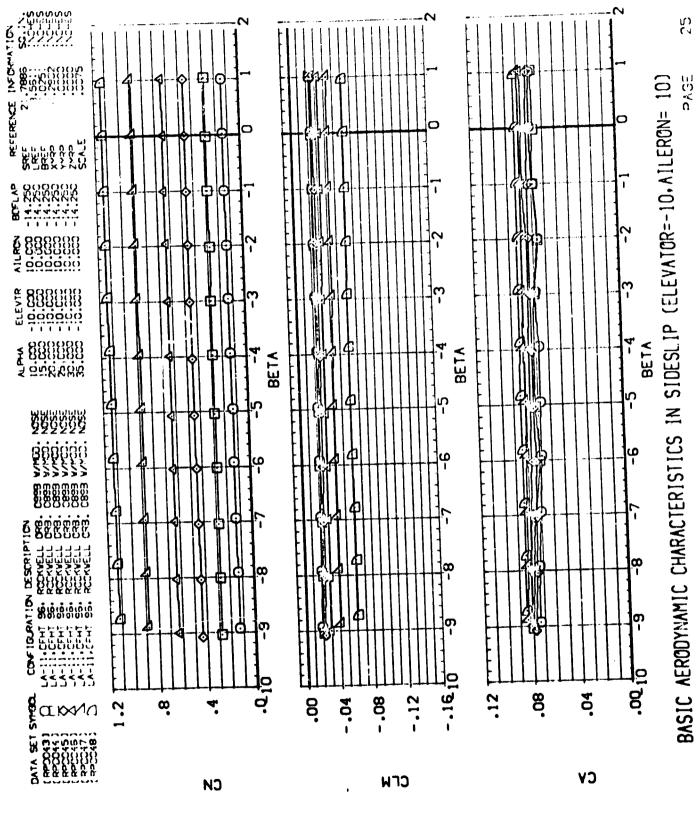




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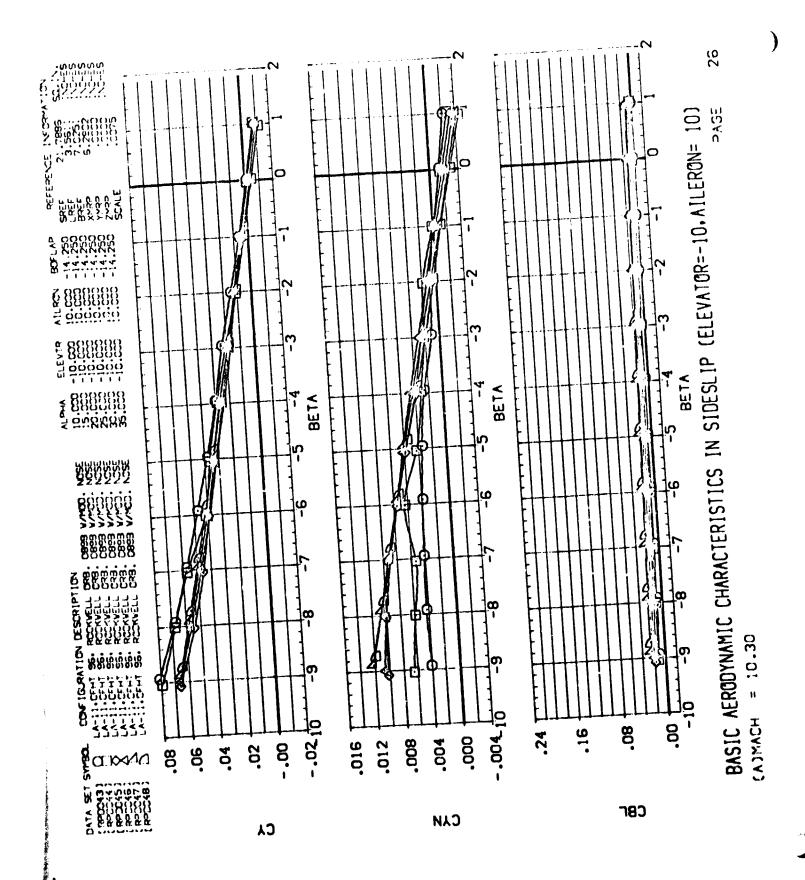


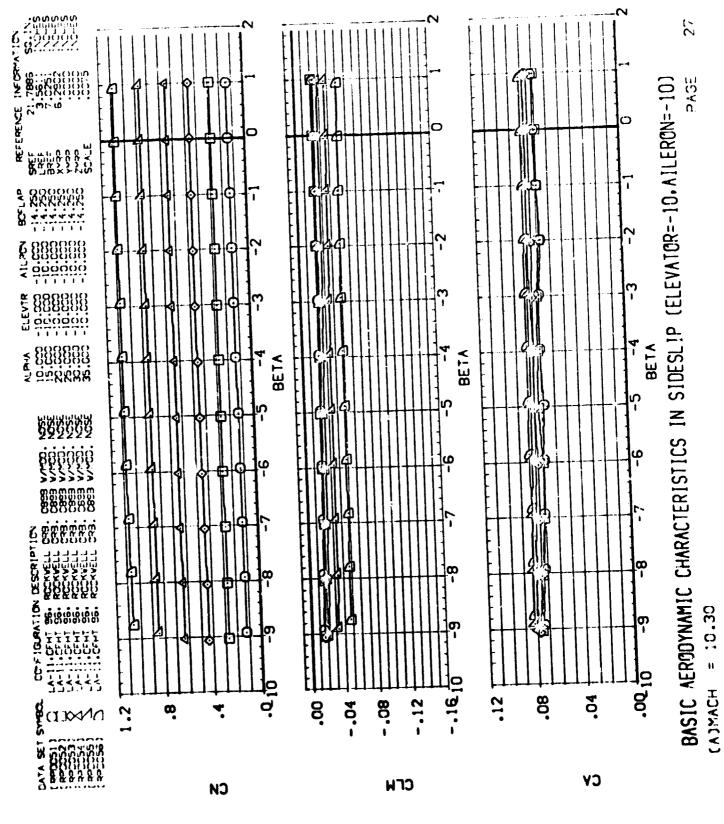
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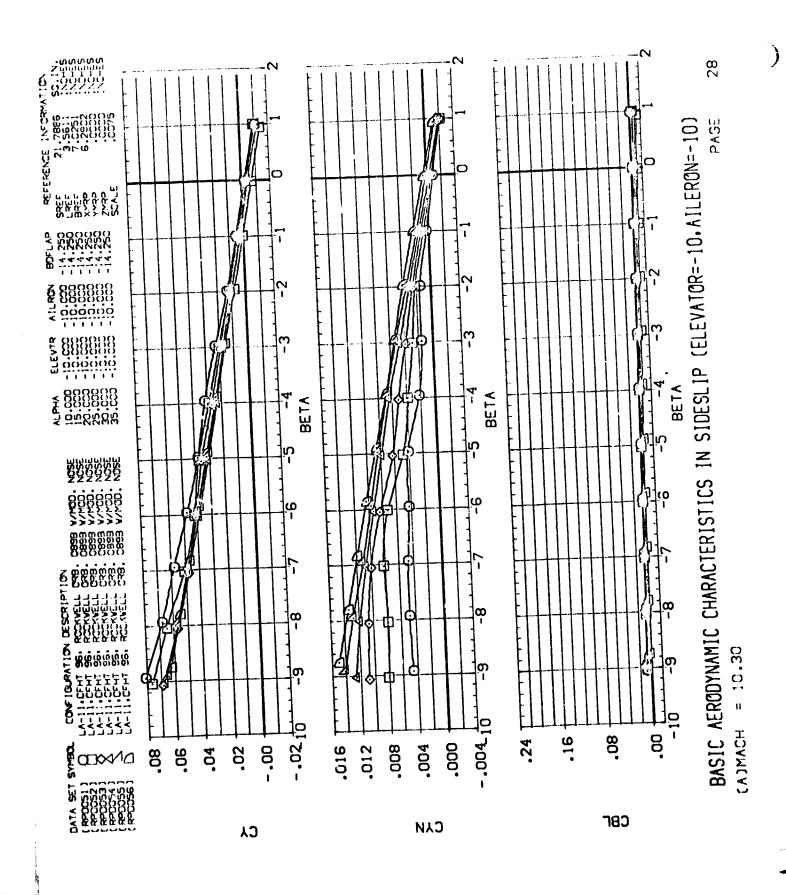
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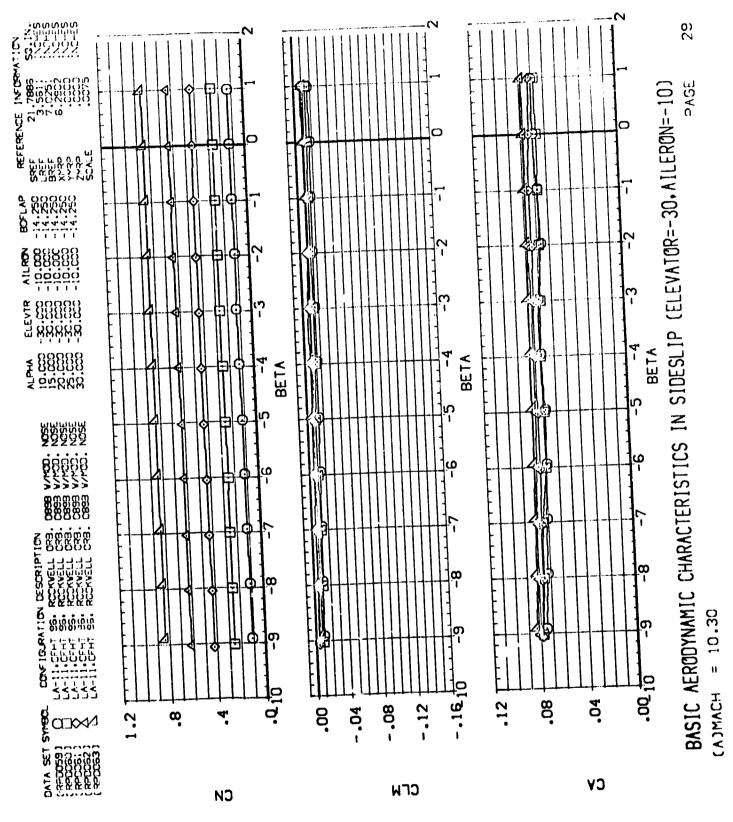




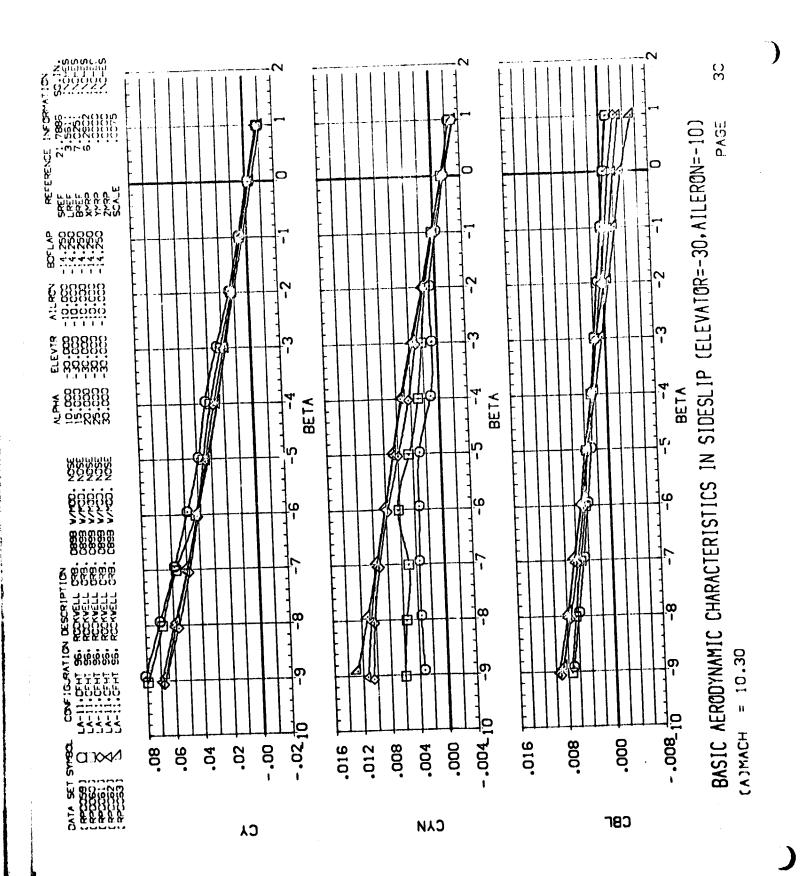


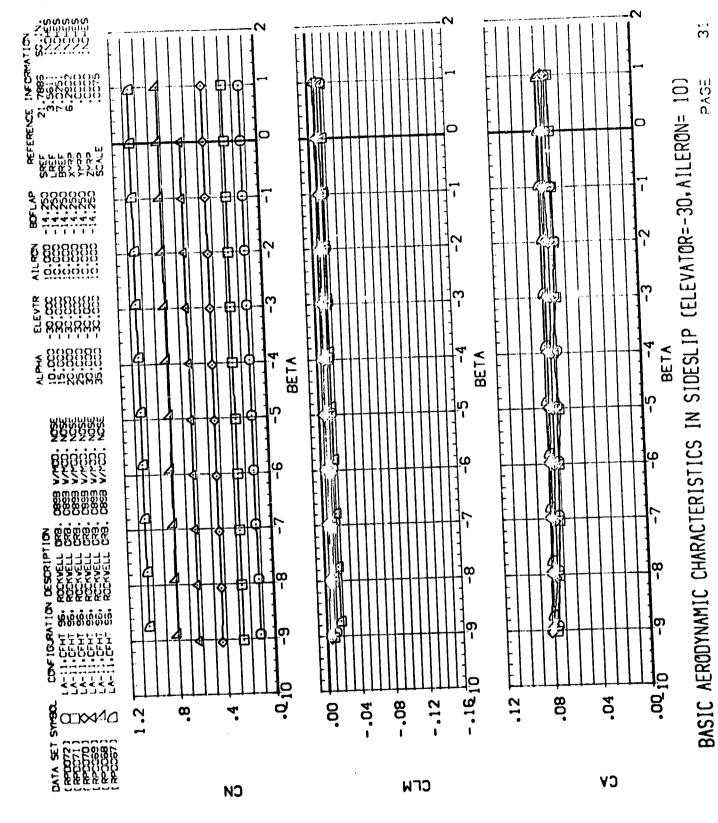










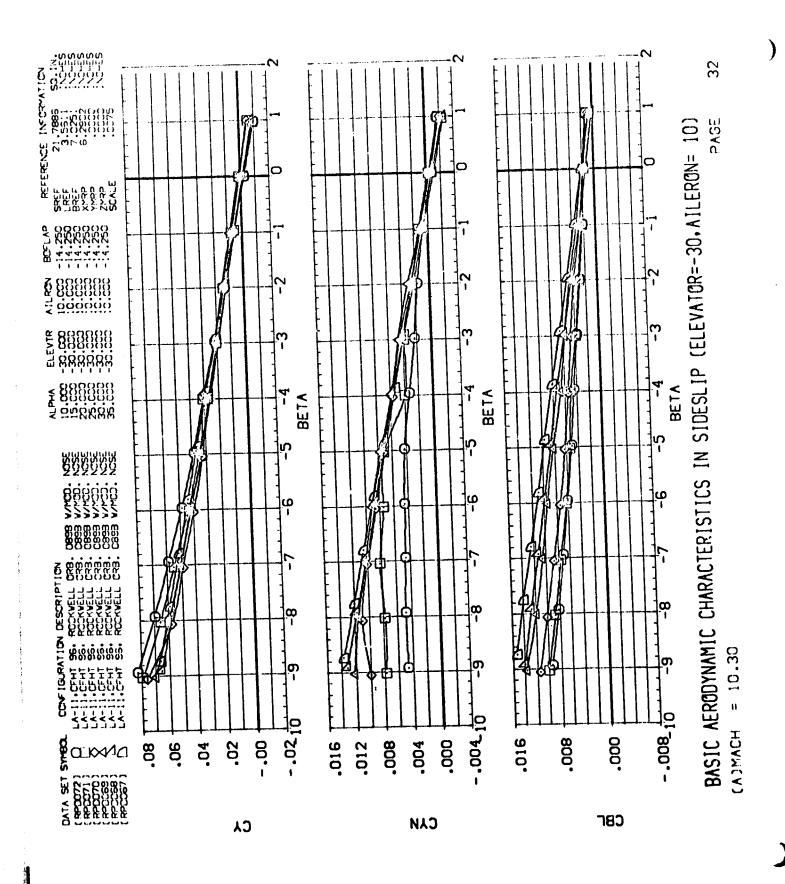


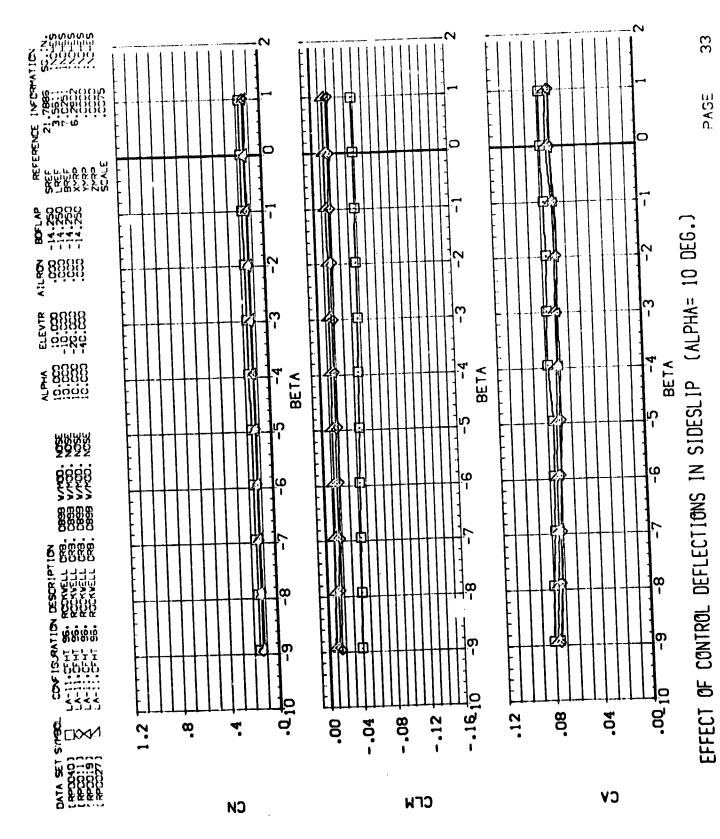
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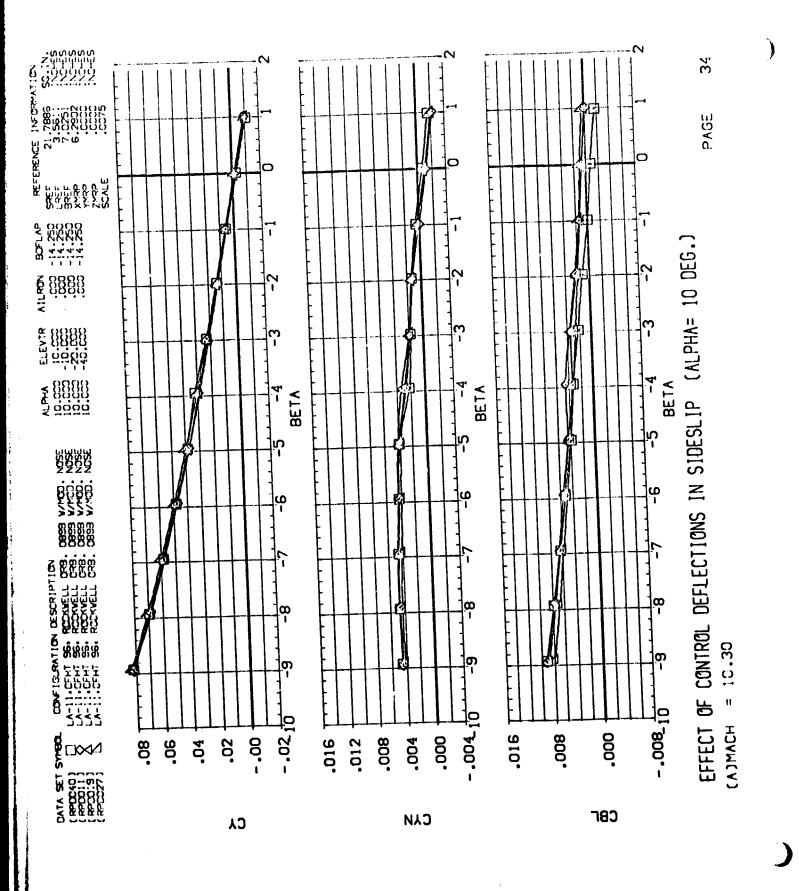


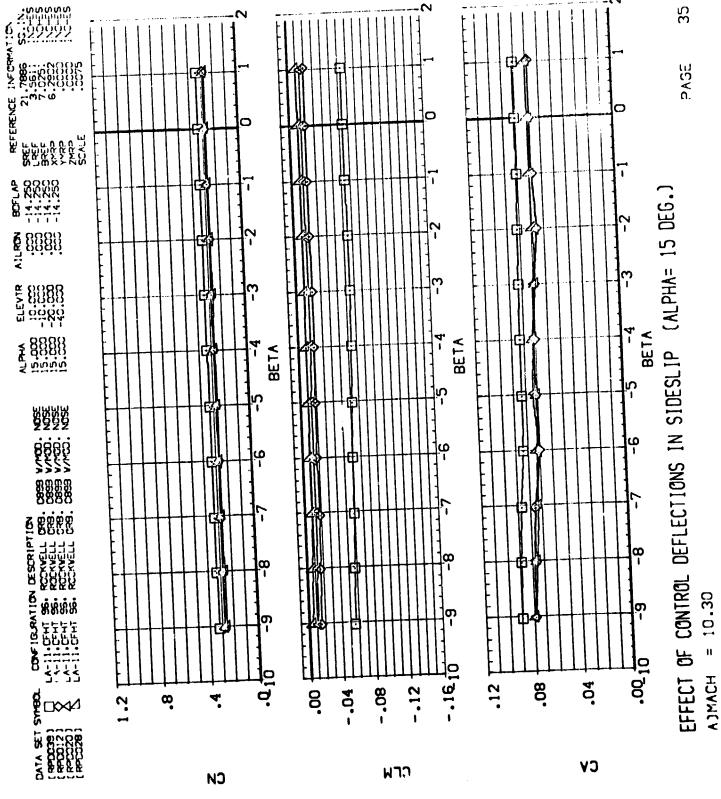
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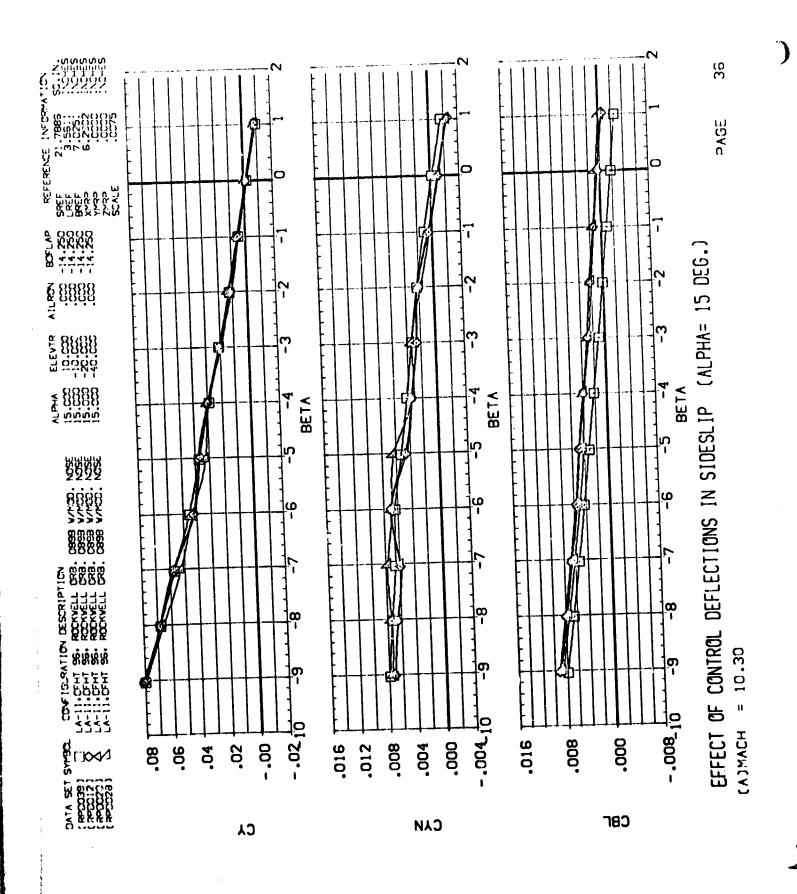
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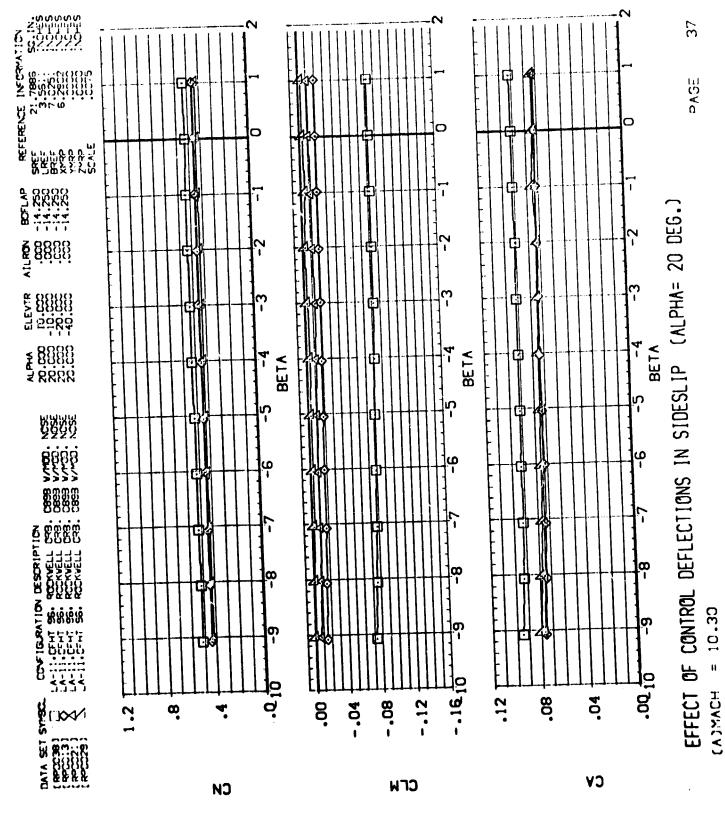
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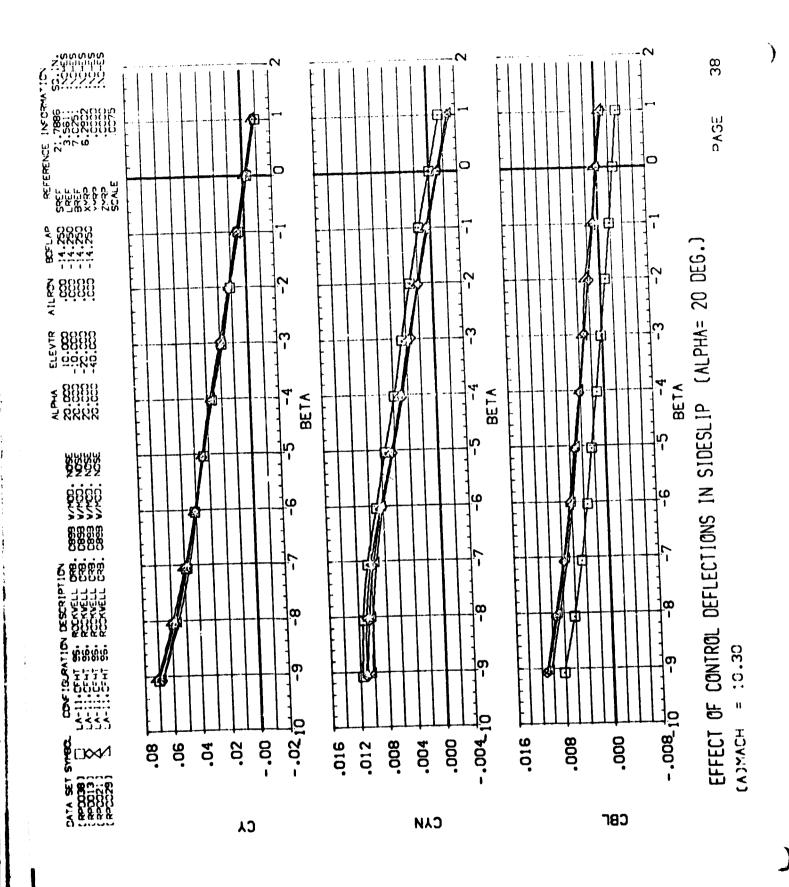


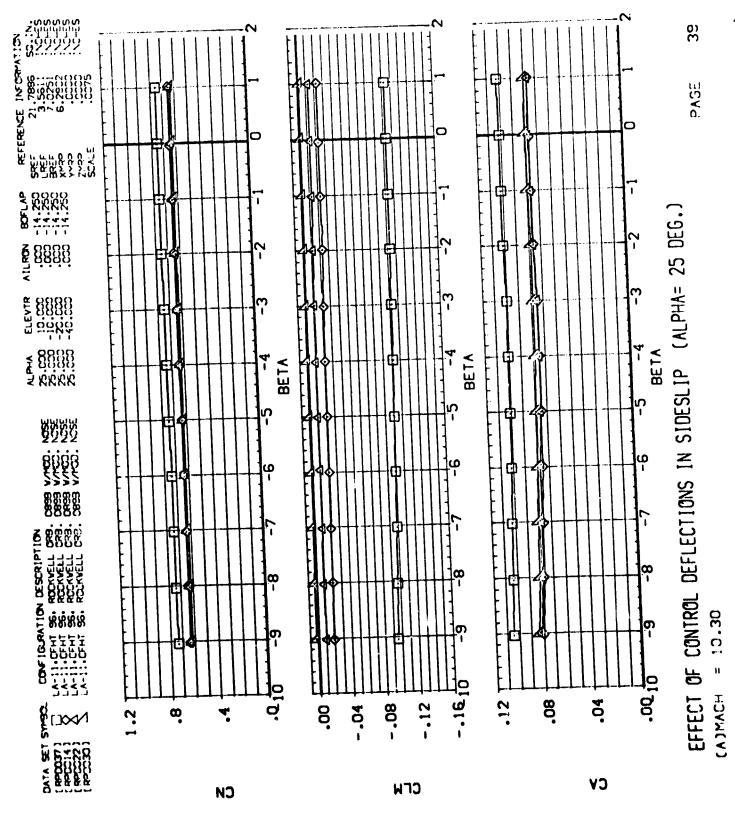




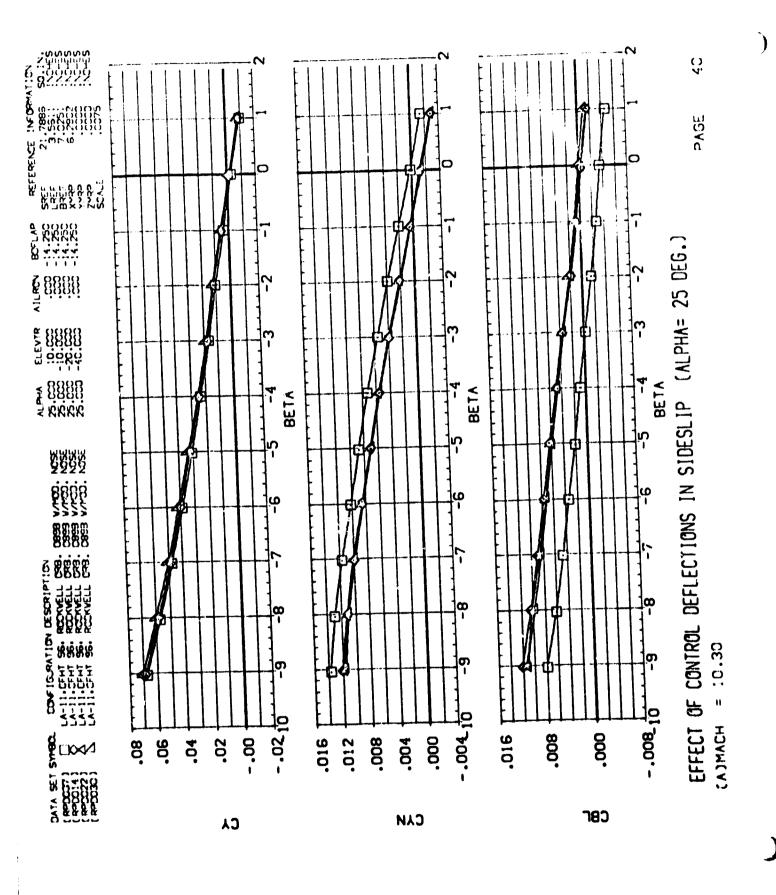
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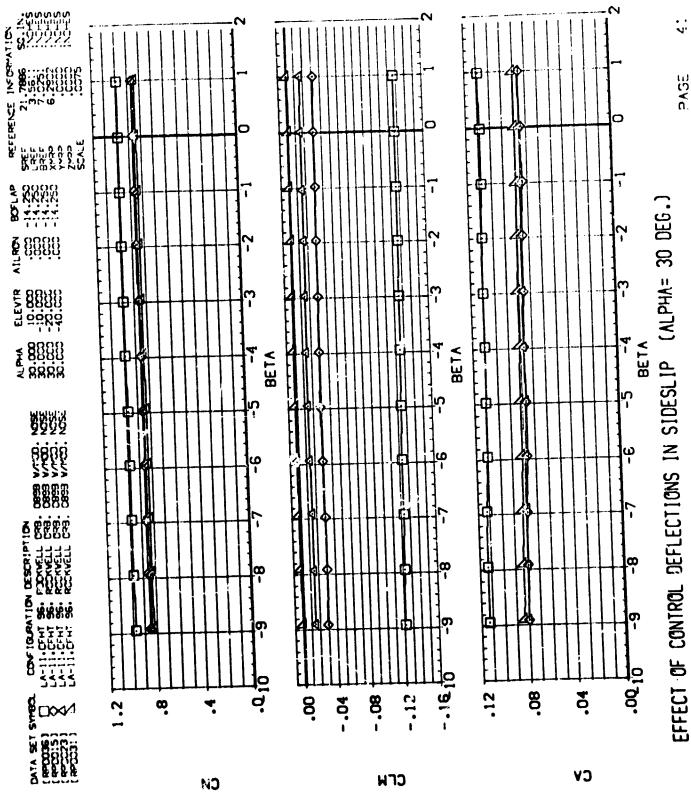






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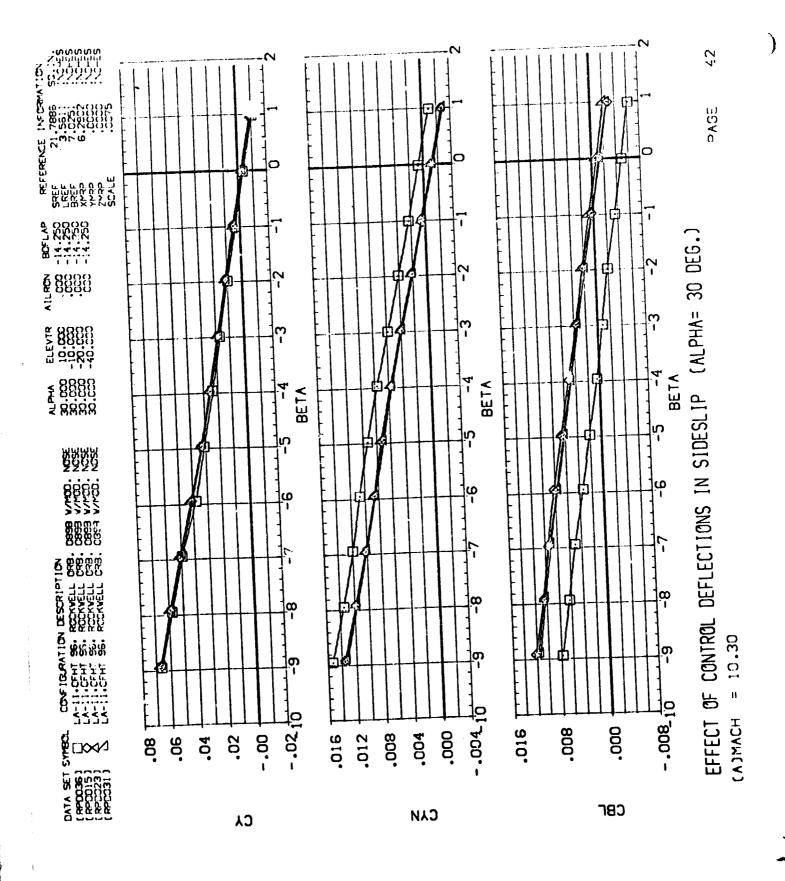




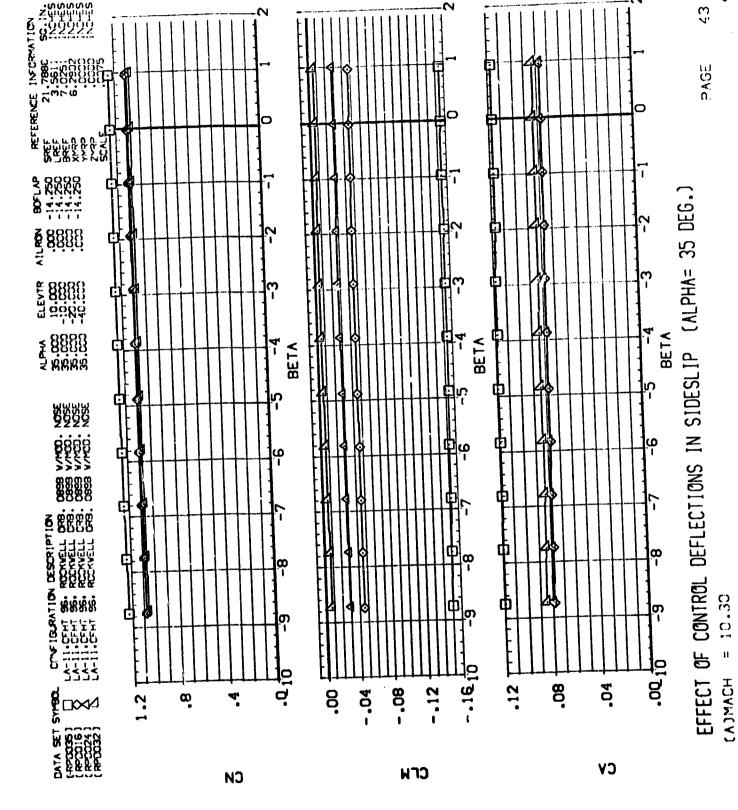
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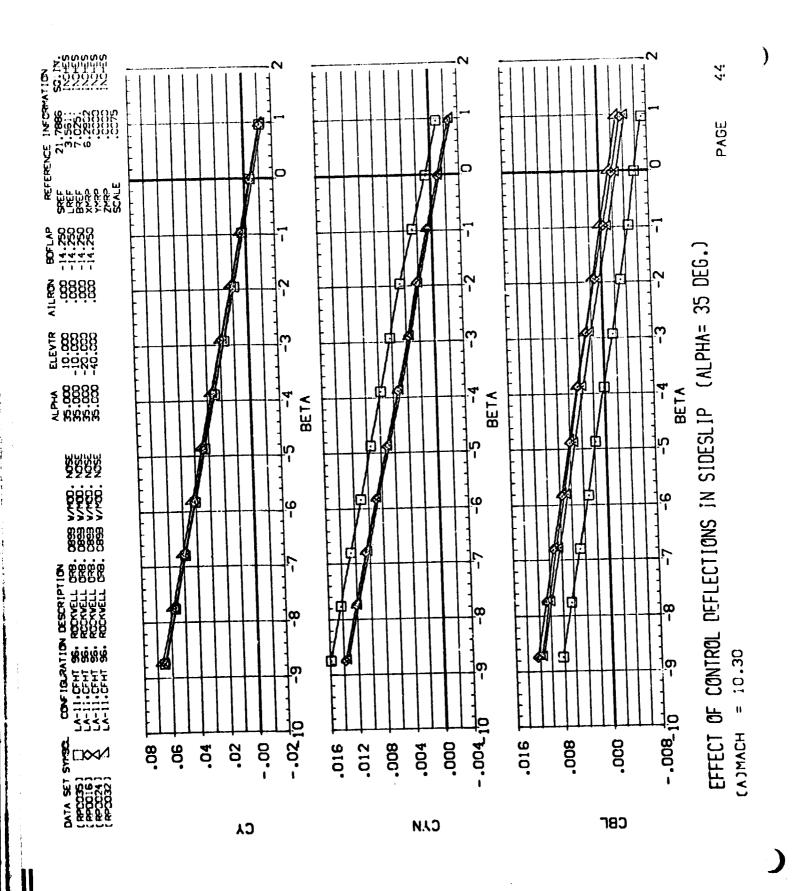
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APPENDIX

TABULATED SOURCE DATA

Plotted data listings available on request from the Data Management System.

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12 TO SEP 73	r	;	₹.	ULATED 90 4	CFMT 96, F	TABULATED SOURCE DATA - CFNT96 (LA-11) LA-11,CFNT 96, ROCKWELL ORB. 11699 W/MCD. NOSE	-11) , 0698 WMCC). NOSE		(RPD501) PARAMETRIC DATA	PAGE () (15 AUG 73 DATA	SE 1
	E1.7866 94.1N. 5.9611 INOES 7.0251 INOES	¥	11 11 11 11 11 11 11 11 11 11 11 11 11	•	6.2902 INCHES				BETA = Allron =	000.	ELEVTR = BDFLAP =	.000
		,	REN NO.	0 /4	1784 1784	1.00 GRAD	GRADIENT INTERVAL =		-5.00/ 5.00			•
10.300 10.300 10.300 10.300 10.300 10.300	9.947 14.991 20.169 25.311 30.126 35.222	EETA 00090 00337 00319 00319 00417 00626		0. 1.4939 2.29902 3.69331 6.67296 3.66230 1.1.2563	CA .06941 .06918 .07551 .07912 .06029 .08478	CLM 02601 03617 03617 03617 06499 06678	GBL .00057 .00024 00026 00047 00241 00241	CYN001050010900109001060009900083	C7 00159 00224 00278 00548 00548	.13529 .26155 .41450 .57453 .87066	CD .09430 .14062 .23269 .33923 .71246	1.43462 1.43462 1.76136 1.59935 1.41102 1.21163
				7	1, CFMT 96,	LA-11, CPHT 96, ROCKWELL CRB. DR98 W/MCD. NOSE	B. De96 W/HC	D. NOSE		(RFC:002)		(15 AUG 73)
*.		Š							••	PARAMETRIC DATA	: DATA	
	E1.7866 SB.1N. 5.5611 INDES 7.0251 INDES	Š	77 45 C	" " " " " " " " " " " " " " " " " " "	6.2972 INDES .0000 INDES .0000 INDES				BETA =	000.2-	ELEVIR = BOFLAP =	.000
			Z.	5/ 0	. X8	1.00 GRA	GRADIENT INTERVAL =	VAL = -5.	-5.00/ 5.00			
10.300 10.300 10.300 10.300 10.300 10.300	ALPHA 9.967 15.240 20.192 25.260 30.109 35.296	BETA -4.92463 -4.96651 -5.00773 -4.92696 -4.92916 -4.62714	ETA 92463 92463 92651 92656 92666 92714 62714	S 4 8 8 8 8 9	CA .06931 .07436 .07760 .07974 .06317 .00071	QLM -,02671 -,03178 -,04907 -,06438 -,09031 -,09031	.0036 .0036 .00407 .00561 .00644 .00849	CYN .00375 .0046 .00571 .01684 .01686 .01685	CY .03908 .0406 .09080 .09035 .05814 .06815	0. 12901. 27072. 42345. 58290. 58294. 73814.	00 .09304 .15070 .23642 .36321 .36231 .74429	1.3855 1.7835 1.77612 1.1.60487 1.20746 2.11248

DATE 10 SEP 73

LA-11, CPHT 96, ROCKNELL ORB. DE98 W/HOD. NOSE

PARAMETRIC DATA

(RPDDD3) (15 AUG 73

1.33401 1.34474 1.35506 1.37850 1.21933 1.26138 1.29159 1.32013 -14.250 .09586 .09586 .09586 .09451 .09753 .09507 ELEVTR = BDFLAP = .12341 .12471 .12655 .12607 .13506 .13407 .13525 .13580 000 10.000 .06148 .06664 .06664 .04696 .03950 .02286 .00067 .00067 ALPHA = AILRON = 1.00 GRADIENT INTERVAL = -5.00/ 5.00 .00439 .00434 .00457 .00457 .00388 .00388 .00129 .00129 .00133 .00102 .00035 .00714 .00714 .00352 .00370 .00350 .0036 .00056 .00006 0.00 CL M C CL M 6.2902 INCHES .0000 INCHES .0000 INCHES CA .07797 .07795 .07346 .07246 .07286 .07302 RUN NO. 11/ 0 .13616 .13645 .13955 .14126 H H II ALPHA 9.92130 9.94559 REFERENCE DATA 21,7866 38.1N. 5,9611 INDES 7,0251 INDES 6.93 6.938 -7.875 10.300 10.300 10.300 SHEF :: UREF :: SCALE ::

LA-11, CPHT 96, RUCKELL ORB. DR98 W/MOD. NOSE

91270. 91200. 27170.

.14962

RADIEM

.14562 .14886 .15031

10,03472 10,04440 10,04005 10,03345

976.

10.300 10.300 10.300

.14539 .14713

10.01792 10.03305

-3.970 -2.973 -1.999 -.00

10.300 10.300

4.97

-5.956

10.300 10.300

9.96916

(15 AUG 73)

PARAMETRIC DATA

1.38807 1.37635 1.37559

.09827 .09800 .00043

REFERENCE DATA

6.2902 INDES .0000 INDES .0000 INDES 7 2251 INDES .0075 21.7896 98.1W. 3.5611 INDES BROF ::

-14.250

ELEVTR = BOFLAP =

15.900 .900

ALPHA =

1.00 GRADIENT INTERVAL = -5.00/ 5.00 ğ

1.79823 1.79503 1.80299 1.80278 1.63700 1.66310 1.68601 1.7835 1.75104 1,73696 .14931 .14841 .14506 .14698 .00031 .153**46** .15270 .14658 .25553 .25553 .25776 .25480 .25865 .26144 .26248 .26583 .26537 .26587 .00017 .07754 .07754 .05728 .05728 .05126 .03425 .03425 .03425 .03425 ,000662 ,000587 ,000507 ,000441 ,00130 ,00130 ,00130 ,00130 ,00130 ,00130 CYN .00728 CBL .00917 .00613 .00617 .00755 .00755 .00506 .00760 .00760 CA .00090 .00106 .00106 .00047 .07528 .07612 .07612 .07520 25455 29455 29510 .28415 .28446 .29129 .29206 ON .26560 .28661 ALPHA 15.04761 15.04763 15.06235 15.07192 15.09470 15.09634 15.09423 15.07345 15.06443 15.06612 15.09276 -3.015 .014 .947 -2.036 -1.042 867A -9.088 -4.000 -7.056 -6.058 -5.023 8.7 10.300 10.300 19.300 10.300

DATE 10 SEF 73

TABILATED SOURCE DATA - CENTS6 (LA-11)

(RPD005) (15 AUG 73)

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LA-11, CFHT 96, RUCKNELL ORB. DOSB W/WOD. NOSE

ELEVTR = BSFLAP = PARAMETRIC DATA 000.02 ALPHA = AIURON = 6.2902 INCHES .0000 INCHES REFERENCE DATA 3.5611 INDES 7.0251 INDES .0075 21.7865 98.1N. BREF = SCALE =

1.79110 1.79110 1.78109 1.7824 1.78732 1.78732 1.79636 1.79626 1.79559 1.80131 CD..23655 .23716 .23749 .22046 .24092 .24109 .24129 .24129 .24129 .24129 41423 41972 42299 42299 423060 433060 43316 43318 43318 43318 CY .11936 .11014 .10104 .09527 .09027 .09027 .07623 .07623 .05772 .05572 1.00 GRADIENT INTERVAL = -5.05/ 5.05 .01032 .00983 .00703 .00734 .00234 .00234 .00063 -.00063 9/ 0 RWL = O. 47566 .47566 .47566 .48567 .48567 .48567 .48567 .48568 .48567 .48956 .48969 .48969 .49105 20.06966 20.06966 20.09011 ALPHA 20.10615 20.10015 20.09739 20.09903 20.09847 20.09847 20.09847 20.09847 -.00103 -2.941 -.016 .992 CRADIEM -6.943 -5.078 4.015 -3.019 -1.33 9.117 -6.061 -7.071 10.300 10.300 10.300 10.300 10.300 10.300 10.300

LA-11, CPHT 96, ROCKELL CRB. 0698 WAYCD. NOSE

REPERENCE DATA

3,5611 INDES 7,0291 INDES ,0077

SCALE X

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PARAMETRIC DATA

(RPDDD6) (15 AUG 73)

-14.250 ELEVTR = BOPLAP = 000**:** ALPRA = 6.2902 INDES .0000 INDES .0000 INDES

CD .37323 .37175 .37125 .37123 .37105 .37105 .37106 .377446 .377442 .37442 .37442 .56601 .59009 .59248 .59526 .59904 .60317 .60337 .60337 .17817 .16440 .15476 .14658 .13456 .13456 .13452 .13171 .12797 1.00 GRADIENT INTERVAL = -5.00/ 5.00 CCN .01053 .00976 .00976 .00976 .00979 .00730 .00739 .00087 .00159 .00028 .00028 .00030 .000030 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .000 .01575 .01575 .01586 .01137 .00101 .005724 .00590 .000474 .00590 -.04765 -.04605 -.04605 -.04604 -.05167 -.05167 -.05167 -.05224 -.05224 -.05224 -.05224 CA .00644 .00631 .00631 .00697 .006212 .006212 .006212 .006212 8/0 BWL = ₹ 0 25.21927 25.21355 25.20320 25.20365 ALPHA 25.27510 25.26206 25.24262 25.23001 25.19694 25.19944 -.00260 6.043 -5.081 -2.042 -1.042 1.02 -3.064 10.300 10.300 10.300 10.300 10.300

1.57546 1.56734 1.59601 1.60427 1.61011 1.61253 1.60905 1.61069 1.61266 1.61266

(RPDDD7) (15 AUG 73)

		7	1,CFMT 96,	ROCKIEL	LA-11, CFMT 96, ROCKNELL ORB. D098 W/HOD. NOSE	8 2 8	L.J			ı	
								PARAMETRIC DATA	CATA		
REFERENCE DATA	4						:	Ş	EI EVTR #	CCC	
2.5611 INOES	# H # #		6.2922 INDÉS .0000 INDÉS				ALMA	ALMA = SULEMA	BOFLAP =	-14.250	
7.0231 INC.		•									
	3	6 2	17A2	8.1	RIN NO. 7/ D RWL = 1.00 GRADIENT INTERVAL = -5.00/ 5.00	SVAL =	-5.00/ 5.90				
										•	

	1.38836 1.38836 1.38838 1.49939 1.40566 1.4167 1.4167 1.4187 1.41884 1.41884	~ K 34
	54536 54536 54593 54593 54594 54661 54661 54610 54610 54610	**
	75716 75397 76397 76391 77639 777064 77730 777530 777530 777531	
	7, 10529 1, 10529 1, 10531, 10	
)	CYN .01334 .01147 .00990 .00932 .00474 .00474 .00136 .000301 .000301	
	CBL .02302 .02303 .02528 .02528 .02520 .01397 .01528 .01528 .01528 .01528 .01528	
3.	Q_M 06440 06594 06435 06436 06597 06690 06695 06727 06727 06727 06727	
2 2 1	64 18787. 18784. 18784. 18878. 1888. 1888. 1888. 1888. 1888. 1888.	
₹ 7	00 92992 93992 93992 94410 94410 19494 11594 11594 17694 17694	
Š.	ALPHA 30,39696 30,33699 30,25640 30,25640 30,25640 30,22837 30,21600 30,21909 30,22007	
	BETA -0.919 -7.941 -6.919 -5.849 -4.945 -2.905 -2.006 -1.032 -1.032 -1.032 -1.032 -1.032	
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	1.19771 1.20051 1.20051 1.20086 1.20086 1.2103 1.2148 1.2148 1.2148 1.2148
	75457 75457 75660 76103 76252 76254 76276 76307 76303 76450
	90375 90321 91434 91434 92290 92290 92290 92290 92290 92674 92674
3	7.3837 .13639 .11643 .11557 .10436 .09506 .09634 .07718 .07718
INTERVAL = -5.U.	CYN .01300 .01344 .00977 .00641 .00641 .00453 .00135 00056 00056
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1.50 GRM	09174 09190 09232 09302 09303 09309 09363 09363 09449 09478
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6.0	00 1.17991 1.18946 1.18946 1.1994 1.19928 1.19928 1.19720 1.19740 1.19740
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1.36664 1.82944 1.78406 1.60394 1.22003 1.21943 (15 AUG 73) -10.000 -15,000 (15 AUG 73) ELEVTR = ELEVTR = BOPLAP = .13333 .21266 .33114 .47479 .67627 .09067 PARAMETRIC DATA PARAMETRIC DATA .12412 .24392 .37940 .53113 .67421 .02792 -5.900 000 8 8 BETA = DETA = -.00196 -.00196 -.00278 -.00271 -.00271 1.00 GRADIBAT INTERVAL = -5.00/ 5.00 1.00 GRADIENT INTERVAL = -5.00/ 5.00 CYN
-.00110
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-.00126 LA-11, CFHT 96, ROCKWELL CRB. 0898 WAYD. NOSE LA-11, CPMT 96, ROCKNELL ORB. D698 W/HOD. NOSE 2000. 2000. 2000. 2000. 2000. 2000. 2000. 2000. TABULATED SOURCE DATA - CFMT96 (LA-11) QM -.02060 -.0174 -.0229 -.04479 -.0000 6.2902 INDES .0330 INDES 6.2902 INDES .0000 INDES .0000 INDES # 7×8 CA .06779 .06531 .07033 .07222 .07316 .07316 12, 0 04 .13796 .27016 .42921 .062145 .062063 S. N. REPERCE DATA NEPENDICE CATA 21,7865 30.IN. 5,5811 INDES 7,0251 INDES .0075 7.0251 INCHES .0075 21.7866 98.1H. 3.5611 INCHES 9.996 15.032 19.986 25.163 36.313 84.313 DATE 19 SEP 75 10.300 10.300 10.300 10.300 10.300 10.300 UEF : LEG :

.14333 .21954 .33496 .49156 .68702 .09217 CL .12699 .25963 .39436 .54283 .69386 .83572 70.03575 .03594 .03580. .03580. .03580. .15080. .00471 .00471 .00692 .00705 .00705 .00/92 .00/92 .00/99 .00/99 .00/97 .00/97 -.01664 -.01761 -.01761 -.02034 -.02040 -.04478 RUN NO. 13/ 0 RVL = CA. .06677 .07056 .07153 .07543 .07520 0 14104 14106 14196 14196 14107 14109 14109 14109 14109 14109 4.98136 4.98137 4.99137 4.97738 4.91487 4.81483 30.226 35.363 GRADIDAT 15.0 Fe. 19.965 25.088 15.136

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TABLELITED SCANCE LOTS TABLELITED SCANCE	EFERENCE 611 INO 111 INO 112 INO 113 INO 114 INO 115 INO 116 INO 117 INO 11	ATA XXVIII YVIII ZXI	Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	6.2902 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000	HT 96, RO HT 96, RO INCHES INC	CKWELL ORB. 1.00 GRADII QLM 01385	- GCM/M 8690	88	ũ.	(RPDD13) ARANETRIC D	(15 AUG 73	e i
	EPERENCE 6811 INC: 1075 1075 1075 1076 107		""" हैं इस्ट्रेस्ट्र्स्	6.2902 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000 .0000	HT 96, RO INCHES	CKWELL ORB. 1.00 GRADII QLM CLM 01365	.009B W/MCD.	3	ũ.	ARANETRIC D	ATA	§
	EFERDACE 611 INO- 1075 1075 1075 1076		ů	6.2902 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .000000	INCHES IN	GRADII Q.M 01365			ů.	ARANETRIC D	SATA	5
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March Marc		20.11547 20.11439 20.11516 20.12697	4 4 4		.07325	01017	711/CG.	COARCO.	.02856	27102	22,522	78646
200 -2.992 ED.11439 .43901 .07314 -01067 .07016 .07026 .02039 .44049 .44049 .200 .200 .200 .200 .200 .200 .200 .20		ED.11439 ED.11516 ED.12697	84. 84.			01867	.00293	.00337	.01967	40000	206.23	1.78625
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Supplement Substitute Sub			.45		*10.10.	- 01842	2,000	00118	00132	785CA.	66927	1000
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REPERINCE DATA REPERINCE DATA REPRESSITE CARD WINCO, NOSE REPRESSITE CARD	DIEM	7.50	ğ			• • • • • • • • • • • • • • • • • • • •						
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### E1.7000 E0.1N, 1000 = 6.2902 INCHES ### 3.9811 INCHES 7400 = 0.0000 INCHES ### 2.0001 INCHES 7400 = 0.0000 INCHES ### 2.0001 INCHES 7400 = 0.0000 INCHES ### 2.0001 INCHES 7400 = 0.0000 INCHES 7.0001 ### 3.9811 INCHES 7400 = 0.0000 INCHES 7.0001 ### 3.0001 INCHES 7.0000 INCHES 7.0001 ### 3.9811 INCHES 7400 INCHES 7.0001 ### 3.9811 INCHES 7.0000 INCHES 7.0001 ### 3.0001 INCHES 7.0000 ### 3.0001 INCHES 7.00000 INCHES 7.0001 ### 3.0001 INCHES 7.0000 ### 3.0001 INCHES 7.0000 ### 3.0001 INCHES 7.00000 ### 3.00000 ### 3.0001 INCHES 7.00000 ### 3.0001 INCHES 7.00000 ### 3.000000 ### 3.00000 ### 3.00000 ### 3.000000 ### 3.000000 ### 3.000000 ### 3.000000 ### 3									-	PARAMETRIC	DATA	
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-7.982 25.18487 .63060 .07766 .01995 .00995 .00991 .048687.016 25.17499 .63941 .07599 .01995 .00995 .00991 .048685.002 25.18481 .64096 .07504 .02020 .00952 .00798 .032315.003 25.14481 .64096 .07504 .02034 .00356 .00798 .032315.002 25.13703 .64294 .07743 .02244 .00356 .00401 .317935.002 25.13703 .64295 .07621 .02267 .00964 .00401 .317931.002 25.12916 .44890 .07664 .02257 .00964 .00159 .00369 .07621 .032671.002 25.1273 .44896 .07664 .00265 .00169 .00169 .00169 .00169 .00169 .00169 .00169 .00169 .00169 .00169 .00169 .00169 .001657	-0.030	25.20612			200		04040	.01116	96750	\$4445	. 342.13	
-7.016 E5.17409 .C5941 .C7059	-7.946	25.16467	·		00770	10000	77895	1990.	.04868	.54593	.34166	1.39767
-6.002 E5.18057 .6406i .07544102054 .00565 .00706 .032315.003 E5.14681 .64066 .0750602054 .00565 .00706 .0358 .02489 .02681 .23189 .02481 .00756 .00356 .00401 .337935.002 E5.15703 .64255 .0747302144 .00356 .00401 .337935.002 E5.15095 .64253 .0762102267 .00064 .00356 .003596.002 E5.11806 .64800 .07664 .02257 .00064 .000596.002 E5.1273 .64600 .07664 .022576.002 E5.1273 .64600 .07664 .002536.002 E5.12736.002	-7.016	25.17409		3941	.070		20700	95805	AC180.	.54776	.34964	1.6.100
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-1.022 25.11886 .64880 .0766402253005320016930127	-1.980	25.12616		5297	.07621		99000	.990155	.00560	.55491	.34481	
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1.57851 1.59787 1.59787 1.61904 1.61571 1.61571 1.60935 1.60935 1.60935

(RPD015) (15 AUG 73)

REPERBICE DATA	DATA								PARAMETRIC DATA	DATA	
21.7866 20.1N. 3.5611 100/63 7.0051 100/63	1	H H	.2902 INDES .0009 INDES .0000 INC-ES	INCES INCES				ALFHA =	000.08 000.	ELEVTR : BOFLAP ::	-10.000
	GI NO.	MO. 177 0		, ,	1.3 6.1	ADIEM INTER	GRADIENT INTERVAL * -5.00/ 5.00	00' 8'00			
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LA-11, OTH 3C, ROCK-ELL OND. D898 WAND. NOSE

REPENDICE DATA

5.3611 INOES 7.0251 INOES 7.0251 INOES

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0.83261. 6.8369. 6.85173. 6.85173. 6.85111. 6.8566. 6.85747. 6.8568.
7, 06497 .05649 .04122 .04122 .04123 .04111 .041144 .0004 .0004 .0004 .0004 .0004
.01376 .01378 .010210 .01059 .00667 .00372 .00237 .00237 .00237 .00253
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47. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4.
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1.34322 1.7847 1.60362 1.6037 1.21637 1.34425 1.81620 1.78307 1.59688 1.41101 1.21731 (15 AUS 73) 20.00 -20.000 (RF0017) (15 AUG 73) 0 .09546 .14490 .34633 .49665 .69452 20012. 2012. 2016. 2016. 2016. ELEVIR : PARACTRIC DATA PARAMETRIC DATA Q. .12850 .26050 .40250 .5550 .69975 .64471 .24993 .39160 .54571 .69313 .03705 8 8 8 BETA = 70 2000. 2000. 2000. 2000. 2000. 2000. BETA : 1,00 C 100.6- = -5.00 5.00 MAL = 1.00 GRADIEM INTERVAL :: -5.00/ 5.00 CNN .004005 .004000 .004001 .000701 .000674 -.00138 -.00138 -.00138 -.00138 -.00139 -.00103 LA-11, OTH SE, ROCKELL OIG. DRIG WHOD. NOSE LA-11, CPHT 96, ROCKUELL ORG. DOSG W/HCD. NOSE 90477 90477 90479 90499 90599 90599 .000051 .000053 .000053 ..00053 ..00140 ..00243 TABLEATED SOURCE DATA - CPHT96 (LA-11) -.01463 -.01308 -.00373 -.01352 -.02603 -.00032 6.55C 30C3 .0000 0000. RUN IO. 33/ 0 BML = 6.2902 1NOES .0001 NOES .0001 NOES CA .07194 .07287 .07387 .07518 .07738 RUM NO. 32/ 0 . 14313 14313 14314 14314 14314 14113 14113 14113 0 1360 1475 1475 1476 1786 1786 1878 -.00387 -.00289 -.00289 -.00287 -.00371 -.00687 REPUBLIC DATA 7.021 190.7 .0075 NEVENERAL DATA 2.341 NOES 7,0231 1NO-E3 .0073 21.7866 20.1W. 3.9811 TIOCS 35.184 35.388 READIDAT 80.114 85.199 86.293 86.293 750.03 23.25 19.01 DATE 10 SF . 73 **8** 10.300 5.30 5.30 5.30 16.300 16.300

CATE 10 80 TA

(4PD019) (15 AUE 75)	PARAJETRIC DATA
LA-11, CPMT 96, ROCKAELL ORB. DR88 W/MCD. NOSE	MARKET DATA

E1.7766 20	-							200	BEVTR #	-20.000
5.9611 INDES		. H	.000 INOES			-	ATURON =		BOTAP =	-14.250
7.00. .007		i			CANNERS INTERVAL *	4 -5.00	-5.00/ 5.00			
	ŧ	RUN NO. 36/ U				ļ	i	•	ε	5
	454	5	5	ð	ŧ	Ę	1	, :	21560.	1.10716
1	- 0. N	18731.	.07426	08316	2000	2000		11197	20304	1.20343
		12633	\$6240.	01360	. 50746	900		11163	.09332	1.24961
	5.6907	10151.	57 170.	01610	.00035	2000		(99)	95160	1.27370
	8.9561Z	99OK1.	ONDO.	01606	2500	ones.	101	676	16160.	1.29478
	0.07836	13X1.	09690*	01653	2000	6000		100	01060	37276
		57.52	4LL90.	07.0		Secon.	0.020.			1.32947
			\$2990	01675	.000	830	21120	Centro.	2000	19867
4.4	1000		97.20	01/10	. DOC. 1	.0014E	.01316	.1257	6/1.60	
-6.0.7	10.01			Car 20	021126	1000	79500	.12561	.09183	1.37979
-1.00	10.01		200.00		3000	96000-	00151	.12798	.09406	1.36063
.03.	10.01154		Struc.	2010.	90000	4. mp. 4	19600.	.12457	11260.	1.53701
25.	10.00.01		otoro.	01630		50.00	00788	.00133	74,00	.00769
ELADIEN	.00537	7 .00540	2000.	02239						
		4	14-11. CHY 96, RODOWELL CHB. 0696 W/VCD. NOSE	NOOPET OF	8. 0898 W/K	D. NOSE		(RPDOED)	0) (15 AUE 73	. t 3
		i						PARMETRIC DATA	DATA	
	CODEC DATA									
	90.Dt.		6.2902 INDES .0000 INDES				AILECN :	80. 80.	100 LV =	-14.290
200.		•								
	•	MAN 10. 34/ 0	. AM.	1.00 664	CANDIDIT INTERVAL 3 -5.00/	VAL = -5.0	5.80 5.80			
			;	2	ŧ	£	Շ	ರ	8	3
Y L	\$		5		Teach.	71700	410 8 0.	.24249	.14596	1.66185
80.	14.93973	•			79/00	.00653	63990"	.24553	.14583	1.66363
-7.986	14.94001			75.00	95900	06500	.05769	.24526	.14290	1.71654
**	14.94636		200	45.0	00545	sproo.	.04246	24262	13623	1.75522
ë.	14.95676			94810	07400	27.400.	. CO 669	.24735	.14231	1.7573
7	17.8656				.00366	.00352	19920	.24670	13994	•
-5.67E	14.96852				Sacro	.00266	66020	98672.	13950	
£ . ¥	14.97646	•	-	3610		27.200	.01965	.24757	13470	
£.8.	14.97899	•		21710-		79000	C6770°	.24932	.13730	
	14.9000			11916			-,00205	.25114	.13799	-
100	14.96128			01443	ichon.	1000	12600	.25259	.13673	••
8	14.97777	2 ET366	. Dee7	01433	30000				•	

1.58835 1.58835 1.59448 1.6030& 1.60695 1.50448 1.60448 1.60332 1.59989 1.60236 -.00150 1.56765 1.72451 1.74211 1.75732 1.75732 1.77364 1.77369 1.773692 1.78952 1.79169 -**20.000** -14.250 (15 AUG 73) -20,000 -14.250 (RPD021) (15 AUG 73) .34444 .34159 .34125 .33125 .33222 .34323 .34235 .34235 ELEVIR = BOFLAP = ELEVTR = BDFLAP = PARAMETRIC DATA PARAMETRIC DATA (RPD()22) .54765 .54980 .54977 .54857 CL.
.53996
.54071
.54286
.54286
.54526 25.000 C. .38131 .38451 .38984 .389300 .39910 .39911 .39911 .39911 .39911 .40019 .40191 .39931 .40339 20.00 .000 .05821 .04874 .03984 .03271 .01722 .01181 .07497 .00190 ALPHA = م 107147 ALPHA = 1.00 GRADIENT INTERVAL = -5.00/ 5.00 1.00 GRADIENT INTERVAL = -5.00/ 5.00 .01180 .01113 .01103 .00103 .00569 .00568 .00513 .00051 .01110 .01087 .01088 .01088 .00884 .00884 .00884 .00884 .000814 .000814 LA-11, THT 96, ROCKNELL CRB. DB98 W/NCD. NOSE LA-11, CFHT 96, ROCKWELL CRB. D698 W/NOD. NOSE .00384 .00459 .00459 .00173 .00048 ..0005 .01066 .010674 .00013 .00013 .00096 .00094 .00094 .00094 .00094 .00094 .00094 .01104 .01717 .020660 TABILATED SOURCE DATA - CPIT96 (LA-11) -.01147 -.01199 -.011204 -.01204 -.00946 -.00921 -.00946 -.00947 -.00947 -.01042 -.00666 -.00670 -.00670 -.00968 -.01136 -.01149 -.01156 -.01057 6.2542 INDES .0000 INDES .0000 INDES 6.2902 INCHES .DDD INCHES CA .08111 .07762 .07774 .07522 .07485 .00542 .07642 .07711 .00043 # **1** .07364 .07410 .07278 .07213 .07203 CA .07653 .07514 .07370 .07370 ₹. 96 37/0 .63540 .63765 .63784 .64089 .64083 .64346 .64346 O. .63486 00 .43409 .44233 .44167 .4520 .45093 .45241 .45459 .45592 S NO EN NO. 7.47.7 7.47.7 7.74.12 25.22.96 25.21.694 25.21.694 25.20408 25.20089 25,18476 25,17946 25.17636 25.17628 -.00096 ALPHA 25.25763 ALPHA 20.10920 20.09634 20.09634 20.09571 20.09625 20.09625 20.09166 20.09711 -.00021 25.17867 20.09622 20.09532 20.09379 REFERENCE DATA REFERENCE DATA 21.7206 30.IN. 3.3611 INDES 7.0231 INDES 21.7696 99.1N. 3.5611 INDES 7,0251 INDIES 4.087 4.088 4.088 4.088 1.089 1.089 1.088 -9.030 -9.030 -7.020 -5.959 1.000 RADIENT -5.007 -4.024 -2.990 -1.995 -.015 -6.019 DATE 10 SEP 75 10.300 10.300 10.300 10.300 10.300 10.300 10.300 10.300 10.300 10.300 10.300 10.300 10.300 10.300 10.300 SCALE :: 10.300 10,300 10.300 10,300

(RFDD23) (15 AUG 73)	PARAMETRIC DATA	
LA-11, CFHT 96, ROCKWELL ORB. D898 W/MOD. NOSE	CERTIFICATION OF THE PARTY PARTY.	

14.250		1.39196 1.39494 1.39494 1.40207 1.41069 1.41283 1.41283 1.414198 1.41408
÷ ;		
BOFLAP =		49514 49514 49514 49510 49510 49714 49724 49618 49618
30.00		C
ALPON =	2.00	CY .06565 .05762 .04876 .02479 .01740 .01740 .00396 00316
	INTERVAL = -5.00/	CYN .01340 .01169 .00993 .00902 .00702 .00702 .00704 .00060 00131 00166
	GRADIENT INTER	.01172 .01174 .01046 .00915 .00752 .00470 .00318 .00169 .00169 .00255 00131
	1.00	- 01374 - 01374 - 01384 - 01387 - 01319 - 01319 - 01519 - 01519 - 01519 - 01519 - 01519 - 01519 - 01519
E INDÉS 10 INDÉS 10 INDÉS	RY.	C4 .07966 .07876 .07884 .07699 .07693 .07693 .07693 .07693 .07693
2062.9 0000.	35/0	00 - 64451 - 64504 - 65047 - 65047 - 65060 - 65060 - 65065 - 65665 - 65666 - 656666 - 65666 - 65666 - 65666 - 65666 - 65666 - 65666 - 656666 - 65666 - 656666 - 656666 - 65666 - 65666 - 65666 - 65666 - 65666 - 65666 - 65666 - 65666 - 65
H H H 50 44 55 55 55 55 55 55 55 55 55 55 55 55	CN ND	ALPHA 30.32170 30.3214 30.2214 30.22117 30.2309 30.2309 30.19723 30.19723 30.1909 30.1909
Se.In. INDES INDES		
3.3611 3.3611 7.0231 3.700.		600.4 6.902 6.902 6.902 6.903 6.903 6.903 6.903 6.001 6.001 6.001 6.001 6.001 6.001 6.001 6.001 6.001
SACT ::		10.300 10.300 10.300 10.300 10.300 10.300 10.300 10.300 10.300

ъ Б		-20.000
(RPDD24) (15 AUG 73	DATA	DEVTR =
(RPD02	PARAMETRIC DATA	35.000
	_	ALPHA =
LA-11, CPMT 96, ROCKWELL CRB. 1969B WAYCD. NOSE	REFERENCE DATA	5.5611 INDES 1989 = 6.2902 INDES 7.0251 INDES 1989 = .0000 INDES 7.0251 INDES 2989 = .0000 INDES

(RPD024) (15 AUG 73)

	.66945 .69034 .69124 .69120 .69330 .69316 .69516 .69516 .69631
	. 63167 . 63524 . 63524 . 64412 . 64215 . 64215 . 64835 . 651100
2.00	0426 .0508 .04041 .04046 .03319 .0328 .01720 .0993 .0184 .01322
RADIENT INTERVAL = -5.00/	CTN .01340 .01178 .01010 .00854 .00854 .00337 .00193 .00193 .00118 00118
DIENT INTER	78. 10. 10. 10. 10. 10. 10. 10. 10
1.00 GRA	02854 02852 02752 02753 02723 02723 02753 02753 02753 02753
RENZ	CA .07916 .07917 .07798 .07798 .07791 .07761 .07640 .07647 .07647
RUN NO. 34/ 0	0.007754 1.06074 1.06074 1.06019 1.09019 1.09043 1.09065 1.09665 1.09665 1.09663 1.09663
ş	ALPHA 35.44936 35.44936 35.31777 35.3159 35.22956 35.22956 35.256189 35.256189 35.256189
	67.7- 6.72- 6.77- 6.7- 6.5- 7.6-4- 6.6- 6.6- 6.6- 6.6- 6.6- 6.7- 6.7- 6.7
	10.300 10.300 10.300 10.300 10.300 10.300 10.300 10.300

1.20637 1.20990 1.21238 1.21739 1.21739 1.21979 1.22342 1.22305 1.22305

DATE 10 SEP 75	r r		7	BULATED	SOURCE	DATA -	TABILATED SOURCE DATA - CFHT96 (LA-11)	-11)	<u>.</u>		(RPD025)	. (15 AUG 73	m 15 m
				ż	11, CFH	بر 186ء	DOKNELL ORB	LA-11, CFHT 96, "OCKWELL ORB: UBSE WITCH: INC.	<u> </u>	1			
		CE DATA									PAKAMETRIC UNTA	5	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	21,7866 58.1N. 3,5611 INDES 7,0251 INDES		XORED VARIED STATES	.	6.2902 INCHES .0003 INCHES .9007 INCHES	NOFES NOFES NOFES				BETA = A1LRON =	000.	ELEVIR = Boflap =	-46,006 -14.250
		4	Š.	86.0		BYL =	1.00 GRAD	CRADIENT INTERVAL. =	/AL = -5.00/	xv s.00			
16.300 16.300 16.300 16.300 16.300 16.300 16.300	ALTM. 10,001 15,092 20,134 25,128 35,333 GRADIEM	BETA 00194 00194 00194 00194 00194 00000.	a a a a a a a a a a a a a a a a a a a	<u> </u>			01441 00932 00421 00141 0002	.00012 .00012 .00012 .00012 .000174 .000174	- (5323) - (5320) - (5320) - (5330) - (5330) - (5330)	00221 00221 00232 00332 003332 003332	.11673 .24433 .36174 .38200 .67213 .01260	0.09460. 13794. 21855. 33673. 46214.	1.23367 1.77125 1.74666 1.57055 1.39406 1.19915
				5	6.11	¥ 96, £	KOOPET OF	LA-11, CPHT 96, ROCKELL CRB. 0998 WHOD. NOSE	œ. ∿os€		(RPD026)	6) (15 AUG 73	د ت د ت
		į								_	PARAMETRIC DATA	: DATA	
	21.7866 90.1N. 2.5611 1NOES 7.0251 1NOES	<u> </u>	9 9 9 7 4 4 7 4 4	16 11 11	6.2902 INOES .0000 INCHES .0000 INCHES	.2902 11:OFS .0000 1XC+ES .0000 1XC+ES				BETA : ATLRON ::	3.000	BOFLAP =	-14.250
		_	S. S.		0 /8	7 <u>8</u>	1.3	GRADIENT INTERVAL = -5.00/	TVAL = -5.	9.30			
10.300 10.300 10.300 10.300 10.300 10.300 10.300	9.971 15.009 20.110 25.186 30.276 35.394 486.394	4.3274 4.32674 4.32674 4.32676 4.31677 5.00164 6.13000	2688883	Sandon	•	CA .07442 .07056 .07546 .07911 .08163 .08410	11165 000651 00052 .000932 000937	CB	CrN .00312 .00534 .005697 .00697 .00693	CY .03959 .03106 .03143 .03143 .03143 .03143 .03193	0. 12226 2.4900 3.9106 5.53663 6.6610 82156	.09706 .09706 .13962 .22334 .34081 .49528 .68716	1,25960 1,76099 1,74936 1,56103 1,38527 1,19616

(RPDDE7) (15 AUG 73)

PARAMETRIC DATA

																																						_		_	_		
-40.000	-14.250							S	1.07234	90801	\$600T-T	1.10.6	1.173	1.20373	1.25119	1.27754	1.29314	95799	10000	1.53436	1.25753	.00674		٠ د د	2		5	-14.250		\$	1.62120	1.66658	1.70399	1.72134	1.73939	1.73471	1.78185	-	1.77631	1.78273	1.77850	91900.	
EEVTR =	#	1						е	NORAR	90300	accec.	986G.	.09357	.09246	20260.	09231	60.00	30160	00260	. 09565	.09481	.00052		F 314 30 7		DATA	1	BOFLAP =		8	.14317	.14066	.13879	.13859	13619	06621.	.13562	13730	.13832	.13868	.13933		
000		3						(,	1000	.10545	10890	.10982	11130	11514	FOX		571.	.11993	120021	.11923	.00128			(RECORR)	P.P.METRIC DATA		15.000 .000		d	.23212	23441	.23650	.23855	.23689	.24268	.24166	.24493	.24597	.24723	24779	2000	
		ATURON =				20.00		į	ָּבָּי בְּיִבְּיִי	00000	52023	5993	14951	2000		2000	.05554	.01362	00500	00175	00992	00632						ALEON :	00'6 /0	t	1000	06613	.05241	04330	13267	92620	72610	.01263	00548	00153	10007	1	
	•					8	GRADIENT INTERVAL = -5.55	;	Ę	.00415	.00430	.00411	00200	, perpo-	99000	06200	200	.00127	72000	00106	20200-	96000			D. NOSE				VAL = -5.00/			2000	94400	0000	8690	97500	47500	28.00	ATT-	2000	1000	00247	00126
							ENT INTERV		e	69100 .	50000	27.5CD		5.00.	6800	.00319	.00253	.00168	.00126	0000	1		- 2000		. 0898 W/K				GRADIENT INTERVAL =	!	8	1000	. 00734	90000	96,00		2000	19300	60100.	erro.	econ.	00018	-,00075
							1.00 GRAD		ş	0782	06600		-,01000	01179	01248	01304	01353	01456	04444	04430	01469	01436	00031		14-11. CEMT 96, ROCK-ELL CIEB. DB98 W/MCD. NOSE				1.00 GRA		ð	00517	00679	-,00857	00683	00938	06600	01048	01074	01011	01001	06600"-	00000
	6.2902 INCHES	mm INDES	TATAFE				1 1 1 N		5	A7774		eceso.	.07356	97309	07170.	.07057	25070	1,000		2000	22576.	.07253	.00023		CEMT 96, R			6.2502 INDES .0000 INDES .0000 INDES	# 1 %		ð	.07838	.07535	.07299	.07218	.07027	.07231	.06844	.06920	16690.	16690.	65070.	00013
	6.290	•					° /\$		8	,	11900	.12032	.12352	.12433	12569	0762	20011	1366	101.0	.13425	13490	.13395	.00136		14-41	: 5			0,88/0		5	22192	.26279	.26433	.26628	.26409	22072.	.26853	.27213	.27340	.27472	27542	86.00
DATA	900		200				SE NO				9.93719	9.96976	9,98164	9.99553	20,00	10-01-01		10.04776	10,03621	10.05426	10,05690	10.06005	.77743				DATA	* I I I	SE NO.		*5*	4.96328	14.96471	4.97117	14,98634	14.99342	15.00111	15,00306	15,00532	15.00.36	15.01191		- TO TO TO
REFERENCE DATA		21.7866 50.1N.	3.5611 INCHES	7,0251 INCHES	5700.					BETA	926.9-	-7.931	_						-1.978 1);							REFERENCE	21.786 98.1N. 3.5611 INOES 7.0251 INOES .0075				5											R
			5		× 477					ō	10.300	10.300		20.30	10.300	10.300	10,300	10.300	10.300	10,200	000		10.01			•					į.	5	20.20		10.30	10.30	26.36	20.00	20.01	20.07	10.30	10.300	10.300



1.57242 1.57730 1.56090 1.56362 1.5850 1.58206 1.57812 1.57926 1.54354 1.55878 1.55878 1.74392 1.75430 1.76505 1.74789 1.75934 1.75961 1.68160 1.70342 1.72441 1.73472 1.73736 -40,000 -14.250 (15 AUG 73) -40.000 (RPD029) (15 AUG 73) PACE .33627 .33624 .33729 .33637 .33637 .33636 .34056 .34056 21035 21623 21734 21732 21712 21712 221532 221562 221562 21563 215 .33892 EEVIR = ELEVTR = BEFLAP = G .21939 PARAMETRIC DATA PARAMETRIC DATA (RPD030) .52314 .52726 .52677 .53036 .53066 .53366 .53724 .53724 .53764 25.000 CL.
36696
37246
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38683 20°02 200° CY .007026 .06518 .05530 .01535 .01858 .01858 .00558 .00558 77 201111 201106 201108 201108 201109 201177 201131 201131 201131 201131 201131 201131 201131 201131 ALPHA = 1.00 GRADIENT INTERVAL = -5.00/ 5.00 1.00 GRADIENT INTERVAL = -5.00/ 5.00 ALPHA ATURON -.00140 CYN .01156 .01092 .00961 .00700 .00556 .00390 .00390 .01019 .01019 .00533 .00531 .00531 .00356 .00039 ...00127 LA-11, CPHT 96, ROCKWELL CPB. DB98 WANCD. NOSE LA-11, CPHT 96, ROCKWELL CRB. D698 W/MCD. NOSE .01133 .00971 .00972 .00588 .00588 .00588 .00539 .00592 .000939 .000939 .01031 .01031 .00061 .00088 .00088 .00091 .00090 .00093 .00099 TABULATED SOURCE DATA - CPHT96 (LA-11) ALM COODS COOD 6.2902 INDES .0000 INDES .0000 INDES 6.2902 INCHES .0000 INCHES .0000 INCHES CA .005342 .00117 .005117 .07521 .07739 .07730 .07730 .07730 .07730 .07730 .07730 .07730 # **1** 13. 14. CA .07965 .07776 .07612 .07531 .07501 .07352 .07352 .07362 9 8 0 /19 .63246 .63136 .33162 O 61.773 62159 62259 .62350 .62366 .62548 .62653 00 24124. 24124. 24245. 243040. 243045. 24304. 24304. 24304. 24304. 24304. 24304. 24304. 24304. 24304. 24304. 24304. 24304. EN PO 5 N 4347 4347 2469 ALPHA 25.24677 25.23616 25.20423 25.30427 25.17291 25.17005 25.17879 -.00140 25.18778 20.04291 20.04291 20.03540 20.0354 20.03736 20.03738 20.03738 20.03115 20.03454 20.0356 20.0356 20.0356 25.17174 25.17235 REPERENCE DATA REFERENCE DATA 21,786 90.IN. 3,5611 INDES 7,0251 INDES 21,7866 98.IN. 3,7611 INCHES 7,0231 INCHES -7.046 -6.040 -6.040 -4.018 -7.011 -7.011 -7.000 -1.007 -5.022 -5.015 -5.016 -5.016 -1.002 86.2 4, 633 4.036 -7.01E RADIEM 6.045 DATE 10 96P 73 10.300 10.300 10.300 10.300 10.300 10.300 10.300 10.300 10.300 10.300 10.300 10.300 10.300 10.300 006-01 10.300 10.300 ğ

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LA-11, CFHT 96, ROCKINELL CRB. D698 WAYD. NOSE

SARAMETRIC DATA	
PARAME	
	REPENDICE DATA

SHET ::	21,7866 94.1N. 3,5411 1NOES 7,0251 1NOES	A.14. NOES NOES	7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ម	6.2902 INOES .0000 INOES .0000 INOES			4 14	AI,PMA = AILRON =	30,000	ELEVTR = BOFLAP =	-40.979 -14.250
			S S	0. 65/ 0	# 7 8	1.00 GRM	DIENT INTERV	GRADIENT INTERVAL = -5.00/	8.00			
10.300 10.300 10.300 10.300 10.300 10.300 10.300 10.300 10.300 10.300	ATA 0.960-0- 0.961-0- 0	MJPMM 30.20470 30.23620 30.23620 30.23690 30.23690 30.23690 30.26976 30.18619 30.18619 30.17845	44. 4470 6231 6222 6298 8998 8907 1758 1758 1819 1819 1819	00 .653134 .653134 .653134 .653134 .653136 .65303 .65303 .653613 .653603 .644033 .644033	CA .00336 .00236 .00227 .00125 .00034 .00037 .07369 .07364 .07396	.0000 .00000 .00000 .000112 .00112 .00013 .00000 .00000 .0000000 .00000 .00000 .00000 .00000	08. .01131 .01020 .00691 .00622 .00637 .00207 .00000 .000143	.01324 .01324 .01166 .01005 .00056 .00725 .00580 .00390 .00317 .00129	.06697 .05666 .05036 .04123 .04123 .02543 .0137 .01451 .00451	C. 67024 67577 67763 67730 67730 67730 68731 688308 68837 686837 686837 686837 686837	.49093 .49093 .49062 .48887 .48915 .49049 .49082 .49162 .49162	1.37196 1.37650 1.36116 1.36545 1.36953 1.39565 1.39512 1.39647 1.39647

LA-11, CPHT 96, ROCIOLELL ORB. 0698 W/MCD. NOSE

REPERENCE DATA

(RPD032) (15 AUG 73)

PARAMETRIC DATA

BOFLA" =
000° 000°
AILRON =
6,2902 INCHES .0000 INCHES .0000 INCHES
11 12 12 12 12 12 12 12 12 12 12 12 12 1
21,7866 39.1N. 3,5611 INOE3 7,0251 INOE3
SECTION SECTIO

-40.000

	69597 1.18685 69615 1.19685 69615 1.19452 69708 1.19452 6977 1.19669 69104 1.1977 69111 1.1992 69125 1.20045 69211 1.20140 69211 1.20140
	. 81414 . 81368 . 82539 . 82554 . 82664 . 82766 . 82927 . 82982 . 83129 . 82953
2.30	CY
GRADIENT INTERVAL = -5.00/	CN .01345 .01184 .01089 .00866 .00520 .00520 .00211 .00051
IENT INTERV	.00103 .01139 .01013 .00013 .00013 .00131 .00131 .00131 .00130
1.00 GRAD	00776 00508 00507 00531 00491 00497 00497 00500
1 New 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CA .06461 .06394 .06336 .06374 .06316 .06316 .06316
84. a	00 1.06824 1.06695 1.07274 1.07497 1.07629 1.07681 1.07631 1.07631
S. V.	55,55789 35,51619 35,46249 35,44743 35,44743 35,4125 35,34125 35,37639 35,37639 35,37639
	-5.073 -5.770 -5.770 -5.063 -5.073 -1.931 -9.00
, }	10,300 10,300 10,300 10,300 10,300 10,300 10,300 10,300 10,300

E1.7866 SE.1N. 1988 3.5611 INCRES 1988 7.0251 INCRES 2981 7.0251 INCRES 2981 14.89600335 14.8960035 14.8960035 25.0760035 25.1250135 25.1260035 25.1260035 25.1260035 25.1260035 25.1260136 25.136 -4.9164 24.996 25.136 -4.9963 20.255 -4.9963 20.255 -4.9963 20.255 -4.9963 20.255 -4.9963	PAGE 17 TABULATED SCURCE DATA - CFHT96 (LA-11) LA-11,CFHT 96, ROCKWELL CRB. D098 W/MCD. MOSE LA-11,CFHT 96, ROCKWELL CRB. D098 W/MCD. MOSE AMANATRIC DATA	ATA 100 ELEVTR = 10 1000 ELE	BETA ON CA CLM CBL. CYN CY CL. CD CLUB00335 .17819 .0794104990000040006100233 .16176 .10902 1.4839600356 .33489 .0929706395002050000600296 .47023 .27134 1.7330300556 .33489 .09297063950027900296 .47023 .27134 1.7330300779 .14739 .102551280100315 .0002200366 .63346 .40964 1.546430177 .39609 .109291280100315 .0006300269 .94327 .81096 1.1631501372 .20269 .03277 .001610041900200 .0000500137 .03129 .0277601637	MET = 6.2902 INCHES WRP = 6.2902 INCHES WRP = .0000 INCHES ZHRP = .0000 INCHES	ON NO. 797 O NU. ON NO. ON NO. ON NO. ON NO. 15629 O 152360 O 157384
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DATE 10 MEP 73

(RPD035) (15 AUG 73)

PARAMETRIC DATA

8. v 90. r	3.5611 INDES 7.0251 INDES .0075	\$ 50 E	". 0	6000	NOES NOES			τ.		3		
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		3	1.2276	3	11974	-14840		0.427	.05658	.93699	.81124	
		5120	1.233	9	.11953	-13048		7.00	26870	.94268	.81458	
		555	1.239	5	.11916	-15151			.04671	.94636	.61563	
		9758	1.24367	Þ	.11093	15177		44600	.03293	.95011	.81792	
		6595	1.2479	Ŷ	11925	-13268		(1000)	.02490	95108	.81720	
		4425	7.2460	S.	11658	-1555		, mean	.01715	.95120	.81664	
	-2.926 35.2	3121	1.2480	<u>.</u>	11333	10561		72474	62600	.95435	.81694	
		1552	1.25073	2	11710	7.135		16276	.00249	.95360	.81619	
		9030	1.24969	£	11696	1555		2000	- 0.389	.95362	.81640	
10.300		35.20178	1.24585	ŗ.	1178	15575	00372	000	01117	.95417	.81656	
	.956 35.2	5257	2.25040	5	2	7.12		92.00	- 07753	57000	00023	.00122
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		84/ 0 RWL = 1.00 GRADIENT INTERVAL = -5.00/ 5.00
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		8.
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LA-11, CTHT 96, ROCKWELL CRB. 0698 WAND. NOSE

1.33513 1.33884 1.33884 1.3488 1.34995 1.34995 1.34995 1.35906 1.35504 1.35504 1.35504 1.35506
59173 59322 59332 59332 59276 59276 59242 59242 59242 59242
.04925 .04925 .04925 .03426 .0344 .01692 .01003 .00014 .01093
CYN .01331 .01331 .01336 .01196 .00932 .00537 .00540 .00076 00092
.00785 .00785 .00513 .00513 .0050 .0050 .00515 .00467 .00467
12013 12121 12236 12236 12336 12349 12592 12629 12627 12616
.11337 .11325 .11325 .11265 .11037 .11037 .11036 .10946 .10956 .10956
201916 901796 901796 901796 901893 901896 901896 90130
ALPHA 30.20786 30.20125 30.20370 30.21371 30.17666 30.17666 30.17666 30.17666 30.17666 30.17666 30.16661 30.16661
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PACE

(RPD039) (15 AUG 73)

LA-11, GTHT 96, ROCKELL GRB. 0698 WAYD. NOSE

6.2902 INO-ES .0000 INO-ES .000
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FARAMETRIC DATA FHA = 10.000 ELEVTR = 10 1.001
FARAMETRIC DATA FHA = 10.000 ELEVTR = 10 1.001
M = 10 D D 10727 1 10399 1 10339 1 10558 1 10558 1 10558 1 10566 1 10578 1 10578 1 10577 1
M = 10 D D 10727 1 10399 1 10339 1 10558 1 10558 1 10558 1 10566 1 10578 1 10578 1 10577 1
10.000 -14.250 1.35003 1.39543 1.39543 1.42513 1.46222 1.46222 1.46222 1.46223 1.47244

)

TABLEATED SCURCE DATA - CPHT96 (LA-11) DATE 10 SEP 73

LA-11, CPMT 96, ROCKNELL ORB. D096 W/HOD. NOSE

(RPD041) (15 AUG 75)

PARAMETRIC DATA

PAGE 21

	-14.250		1.40146 1.40146 1.79064 1.59916 1.41343 1.21217
8	BOTLAP =		00 .09340 .14220 .3521 .35821 .50633 .71659
1	.000° 10.000		A. 133707 2. 26115 2. 26115 2. 26085 2. 26086 2. 26086 2. 26086 2. 26086 2. 26086 2. 26086 2. 26086 2. 26088 2.
	BETA = ATLRON =	27 5.00	
		M = -5.0	CTN001420015600196002320026700267
		GRADIENT INTERVAL = -5.00/	.002.6 .002.6 .003.6 .003.6 .006.1 .006.1
		1.00 GRAD	
	Z NOES NOES NOES	FBV.	CA .007053 .007363 .007863 .007639 .00267
	2062. 00000.	2773	. 14633 . 28916 . 4620 . 66531 . 172931 . 172931
DATA		EU NO.	
REPUBICE D	21,7806 20,1N. 3,5611 INDES 7,0251 INDES		15.096 15.296 25.203 25.203 25.301 25.203 25.301 25.203 25.301
	S		10.300 10.300 10.300 10.300 10.300 10.300

LA-11, CTMT 96, ROCKWELL CRB. D098 W/MCD. NOSE

PARAMETRIC DATA

(RPD042) (15 AUG 73)

	8 2		1.35349 1.61402 1.79108 1.61213 1.20186 1.201328
	-10.000		
<u>.</u>	BOTAP :		.09649 .19032 .23523 .35449 .35449
PAGNETAL CATA	10,000		0, 27260, 27260, 42132, 57145, 73333, 72359,
	BETA =	00' 8'00	0.03621 .03624 .03062 .03042 .03042 .03128
		CRADIENT INTERVAL = -5.00/	.00340 .00340 .00418 .00541 .00541
		DIENT INTER	.001.6 .00016 .0000.0 .01046 .01345 .01614
		1.00 GRM	20064
	.2902 INDES .000 INDES .000 INDES	13 NS	.07166 .07368 .07571 .07559 .06136
	9062.8 00000.	8	04 .14961 .30253 .47656 .66786 .89711 1,13652
DATA	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	d va	4.99304 4.99304 4.99308 4.99308 4.99308 4.99308 4.90319 4.90319
METERORICE DA	SQ. IN. INDES INDES		
G.GN	21,7866 50.1N. 3,3611 INDES 7,0251 INDES		6.508 15.178 15.178 20.149 20.319 20.319 20.319 20.319
			10,300 10,300 10,300 10,300 10,300 10,300

LA-11, CTHT 96, ROCKWELL ORB. D09B W/HCD. MOSE

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	x !	ME.TA	٠,		5 -	2	07491	- 046	25	2110.	.00406	49090	.11608	€, 160	1.21673
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-5.85	8 9		•		•		77070	020	2	500	71500.	93250.	.12090	.09286	1.37185
-1.94	8		•	9	: :					.00765	00300	02720	12092	71160.	1.32835
-1.947 9.99204 .13932 .0662902169 .00378 .00263 .02977 .12549 .09124 -1.947 9.99204 .13932 .0662902246 .00323 .00119 .02301 .12647 .12592 .09115 -1.947 9.92256 .14102 .0099002224 .00129 .01447 .12592 .09011 -1.000 9.92240 .14291 .0093402241 .0033400130 .07633 .12871 .09295 -1.000 9.92240 .14291 .0093602241 .0032400130 .12891 .09269 -1.000 9.92240 .1429 .0079102289 .001660022400130 .12891 .09366 -1.0006 9.92203 .14276 .00337003260019400794 .00123 .00123 .001690 -1.0006 9.92203 .14276 .00337002260019400794 .00123 .00123 -1.0006 9.92203 .14276 .003370022600190 .00294 .00123 .00123 .001690 -1.0006 9.92203 .14276 .003370022600190 .00123 .00123 .001690	8 1	-2.4	, .		•		16651	- 0	: 8	200654	0.1346	.03823	.12765	09060*	1.33177
-2.57 3.725 1.12647 1.2254 1.00123 1.00119 1.52301 1.12647 1.53315 1.12647 1.53315 1.12647 1.12592 1.00119 1.02259 1.00119 1.02259 1.00119 1.02259 1.00119 1.02259 1.00119 1.00259 1.01447 1.12592 1.09011 1.0000 1.92590 1.12611 1.00259 1.00269 1.00125 1.00130 1.12611 1.05259 1.00269 1.00125 1.00130 1.12611 1.00259 1.00166 1.00125 1.12691 1.09269 1.00166 1.00125 1.12691 1.09366 1.00132 1.00132 1.00126 1.00126 1.00129 1.00	8		i		• •	2 6	200	100	2	.00578	.00265	77620.	.12549	.09124	
-1.997 9.92977 1.1257	8	7.4	, (•	300	0000	8	; 5	52500	61100.	.52301	.12687	.09315	•
-1.597 -1.2597 -1.2597 -1.2597 -1.00334 -1.00310 -1.7633 -1.2597 -1.0295 -1.0034 -1.00125 -1.00126 -1.2599 -1.	8	100.7	•		•	200	Design a	2	3	27420	68000	73210.	.12592	11060.	•
-1.000 5.52500 .14270226026901250136 .1259002473022 1.00002240013502240012502240012500132000370226001660079400796001230003700260079400796001230026000132000370026001900079400796001230026000132000370026001900019	8	-1.997	, (. !	•		1	2	; ;	7, 500	-,00019	.00633	.12871	. n9295	1,38473
- 0022	8	-1.00		2			2000	200	: 1	9	00:25	00138	12990	57590.	1,37121
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LA-11, CPMT 96, NOCK-ELL CMB, 0098 WWCD, NOSE (15 AUG	8	1.006	, ·	3 8	į	3132	7000.	000	. 8	-,00080	*6.300*-	-,00796	.00123	09000*	.00453
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ğ	EETA O O	٠		,		- 0200	.01261	.00651	56970.	.25197	.14958	1.68449
10.300	3	Η ,				15121	01133	16200	.06776	.25026	.14665	1.70369
10.300			2 5	33.00			01036	.00536	.05725	.25267	.14517	1.74056
B	7.03	-	R :			02178	61600	0000	.042.03	.24958	.13935	1.79102
10.00 10.00	10.0	14.94042	7 70 70 70 70 70 70 70 70 70 70 70 70 70			02250	448CO	.00433	03900	.25445	.14282	1.78164
8.5.5 10.5					0.74	2393	36700	11500.	.02892	.25635	.14282	1.79494
00.01						02420	60900	.00222	04020.	.25542	.14130	1,30762
10.300						02328	27500.	60100	.5112	.25443	.13652	1.86372
10.300	100.3-					-,02319	. 50453	10000	\$1500.	.25898	.14062	1.84167
20.5						78220	.00365	00130	16000	.25844	.13954	1.85202
		•	,			02275	.00267	(30291	00816	.25691		1.64586
10.300	PRADIENT	!	00483	scoos.	•	62000	00093	-, 20122	15700	.90947	00049	.00961

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24 TO 80 73	r		MACATED	SOURCE	DATA -	TABULATED SOURCE DATA - CHITSE (LA1)	7.					1	
			ż	6	7	כמיבור סים.	LA-11, CPMT 96, ROCKNELL ONB. D898 W/HOD. NOSE	, MOSE		(RPDD45)	1) (15 AUG 73	8 E	
									•	PARAMETRIC DATA	DATA		
	SPERGE	E DATA								5	EVTR =	-10.000	
	E1.786 96.1N.			6.2902 INDES	INO CS				ATURON =	10.000		-14.250	
 5 b	7.021 INDE		. 11	oco moes	MOES								
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	į		7	5		ð	ŧ	ž	Շ		23,466	1.73120	_
Į.	S C C		62277	•	Acres.	-,02204	.0165	- 92 P	06880	36649	16122	1.75062	
10.300		20.00	70127		.07502	02335	.01431	ecora.	24.50	.39212	70122.	1.76756	•
10.500		20.07982	. 44445		.07376	02435	.0127	12600		39585	\$2225.	1.77874	_
0.00		20,08345	C2977		07358	-,02462	.01149		15000	40069	.22477	1.76267	
20.00	-5.064	20.09881	.45351		.07348	02701	reoro.		.02755	40160	732527	1.78273	•
	7.046	20,06333	.45453		.07367	00020*-	.0033		11610.	.40275	18822.	1.78757	
000	-3.011	20.07637	.45562		07335	02023		78100	.01189	.40540		1.79009	6
00.00	-1.07	20.07347	.45850		07357	02007		7000	5,600	35707	.22567	1.79097	٠ ۱
10.300	-1.005	20.07733	.45748		12570	-,05393	02.500	03171	00127	40666		1.79730	.
10.300	013	20.0733	.45962		0.01	2007	2000	00331	00766	4005		1.79969	n t
10.300	¥.	20.07846			10270		2000	00147	26900'-	.00055	11000-	25001	
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10.300	10.0	25.15180	•		10000	15620	27570,	S. Crist Tr	COTTOS.	. 54360		1.39313	. •
10.300		25.1340			27.5	10000	.01457	297.65	30500	.54555	34000		: 8
10.300	4.027	23.123	•	1 =	.07622	-,03026	52510	10300	10.00	. 54495			8
10.300		20.00			.97639	-,000175	16116.	50473	2635	54761		_	7
10.500		25.08255			95740	03077	.0:075		25.190	54918			961
86.03 66.03 66.03		ES.08676	86124.	ž	£1540°	03175	0.600	12100.	22474				26
3 5		25.08425	54525.	2	15:10	03237	56,00	, 17246	-,00177		34157		533
		25.06905	-	2	.9768	71207	5,400	57800	.00013	.55063			77
10.300	_			55	.c72:2	. MIS	00124	DE 100	-,0654	\$1000.	4.000.	92100'- 7	921
•	\$	00	00120	B	econ.		i •						

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	ATA
(150 M) (170 M)	PACAMETRIC DATA
LA-11, CPMT 96, ROCKAPLE CRB. G998 WANT, NOSE	

Compared to the compared to
CY CY CO CO COSSES COSS
CT
ALMA # ALLIQUE # 10.05649 10.03136 10.03136 10.03136 10.03136 10.03136 10.03136 10.03136 10.03136 10.03131 10.03131 10.03131 10.03131 10.03131 10.03131 10.03131 10.03131 10.03131 10.03131 10.03131 10.03131 10.03131 10.03131 10.03131 10.03131 10.03131 10.03131
ALMA # ALLACA # 10.05646 10.03073 10.03073 10.03073 10.03073 10.03073 10.03073 10.03073 10.03073 10.03073 10.03073 10.03073 10.03073 10.03073 10.03073 10.03073 10.03073 10.03073 10.03073 10.03073
ALPRO : .04651 .03975 .03136 .03136 .03136 .03136 .03136 .03136 .03136 .03137 .03137 .03137 .03137 .03137 .03137 .03137
ALMON S. 00 5.00 ALMON S. 00 5.00 ALMON S. 00 5.00 C. 00 5.00
ALPAN = ALBAN = ALBAN = C.00053 00703 00703 ALPAN = ALBAN = ALBAN = C.00669 00703 00499 00499 00499004990049900499004990049900499
ALPAN = MURN = M
ALPAN # ALPAN
ALPAN = ALPON
ALPAN = ALBON
ALMA = ALLRON = ALLRo
ALPA = ALPON = ALPON = ALPON = ALPON = BE4990
ALPNA = ALPNA = ALURON = ALURON = CC C
ALPAN = ALPAN = ALLACN = ALLACN = ALLACN = CO. S. C
ALMAN = ALMAN = ALLACN = ALLACN = CO. S. CO.
ALMON = ALMON = ALMON = ALMON = ALMON = CO. 5.00
ALJMA = 35 ALJMA = 10
ALLRON = 13 ALLRON = 10 ALLRon
CRL CYN CY CRL CYN CY CRESS
CR. CYN CY CR. CRESS .01193 .06439 D19 .02235 .01103 .06439 D19 .02236 .01034 .04646 D19 .01296 .00254 .04646 D19 .01397 .00354 .03311 D19 .01306 .00363 .02364 D10 .01306 .00105 D10 .00105 .00105 D10 .00207 .00266 .00266
2000. 1000.
101797 - 00305 - 101797 - 1017
2010. 2010.
. 0135
. 0116600109 .00273 .009970029600496 .00000044201173
. mine0016900176
- mine0016900776

100 H 34

TABULATED SOURCE DATA - CFMT96 (LA-11) DATE 10 SEP 73 LA-11, CFHT 96, ROCKWELL ORB. D698 W/HOD. NOSE

(RPDD49) (15 AUG 73)

PAGE 25

Z

REPENDICE DATA

6.2902 INCHES .0000 INCHES \$ \$ \$ \$ 7.2 \$ 7.2 5.9611 INDES 7.0251 INDES .0075 £1.7865 50.IN. SCALE #

PARAMETRIC DATA

REN NO.

-10,000 ELEVIR = BDFLAP = -10.000 BETA ...

1.00 GRADIENT INTERVAL = -5.00/ 5.00 ₹ " 41/0

1.38669 1.63763 1.76169 1.59482 1.2051 .13601 .22081 .33696 .48655 .68630 60. 109228 .62419 .02818 a. .12816 .24994 .38900 .53739 -.00260 -.00390 -.00316 -.00516 -.00510 -.00670 -.00094 -.00073 -.00073 -.00042 .00003 .00003 -.02194 -.01966 -.02145 -.02663 -.03510 -.04993 CA .00634 .07302 .07302 .07302 .07303 .07303 0.14236 .27674 .44130 .62971 .07264 -.00124 -.00114 -.0257 -.0642 -.01325 -.02197 -.00062 20.165 25.183 30.227 35.405 ACTA 10.114 15.096 10.300 10.300 10.300 10.3C) 10.300 10.300

(RPD050) LA-11, CTHT 96, ROCKELL ORB. D898 WAND. NOSE

PARAMETRIC DATA

(15 AUG 73)

REPERENCE DATA

-10.050 ELEVTR = BOFLAP = -5.000 META =

> 6.2902 INDES .0000 INDES 8 4 8 7 4 8 7 4 8 21.7866 39.1N. 3.5611 INOES 7.0251 INOES

> > SCAE :

1.00 GRADIENT INTERVAL = -5.00/ 5.00 # **1** 60/2 ZN Z .09321 .14340 .22860 .34869 .50371 .63912 .25985 .25862 .40460 .55771 .73386 .64190 .03502 .03454 .03267 .02757 .02700 .02754 CNN .003603 .005009 .00787 .00634 .00638 .00310 .00310 .00166 .00046 ..00079 ..00463 ...02473 ...02045 ...02473 ...03297 ...04629 .07167 .07545 .07597 .06062 ي. 1986: .14397 .26706 .45872 .65334 .86196 1.09134 -4.94220 -4.86505 -4.79226 -00343 4.87961 -4.97961 -4.95999 ¥ ; 14.971 20.114 25.362 35.471 RADIENT 10.300 10.300 10.300 10.300 10.300 10.300

1.39734 1.25423 -.01300

1.59945

1.39414 1.80490 1.77774

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15	
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(RPD051)	

•		062 062	
(15 AUG 73		-10.000	
(RPD051) (15 /	: DATA	ELEVTR = BDFLAP =	
(RPD09	PARAMETRIC DATA	10.000	
		ALPHA =	3.00
ы S		7 4	GRADIENT INTERVAL = -5.00/ 5.00
8 8			SVAL =
§			IME
.096			DIENT
₹ 1			£
ROCKINE			8.
LA-11, CPHT 96, ROCKWELL ORB. 0898 W/MOD. NOSE		6.2902 INCHES .0000 INCHES .0000 INCHES	1 2
V-11,0		6.2902. 1.0000.	48/ D RW/L = 1.00 (
		41 11 11	RUN NO.
		X THRP	\$
		7886 98.1N. 3 5611 INDES 7 0251 INDES 7	
	ļ	E1,7886 96.1N. 5,5611 1NO.ES 7,0291 1NO.ES	

SACT :: URST :: SCALE ::

1.18466 1.24933 1.24933 1.27433 1.30571 1.32175 1.34572 1.34572 1.37478 1.35522 1.35522 1.35522
.09566 .09394 .09394 .09197 .09087 .09350 .09343 .09435 .09435
C. .11335 .11383 .11383 .11385 .12865 .12863 .12863 .12863 .128663
00077 006015 006015 0.05701 0.03798 0.01274 0.0279 0.0279 0.0274 0.0279
.00462 .00462 .00433 .00433 .00433 .00464 .00151 .00151 .00151 .00150
01489 01639 01639 01770 01856 01915 02940 02059 02146 02219 02219
CA .07485 .07301 .07140 .07301 .07074 .07074 .07074 .07096 .06981 .07123 .06981 .07123
ON
ALPMA ALPMA 9.86268 9.86370 9.90257 9.93761 9.95703 9.95703 9.96816 9.96816 0.958816
BETA -9.937 -7.928 -6.935 -4.968 -2.968 -1.964 -1.993 .993
10.300 10.300 10.300 10.300 10.300 10.300 10.300 10.300 10.300

LA-11, CPHT 96, ROCKWELL ORB. D698 W/KCD. NOSE

PARAMETRIC DATA

(RPD052) (15 AUG 73)

.7866 50.1N. 1967 1,5611 INDES 1968 1,0251 INDES 2768

SAEF :: BREF :: SCALE ::

RUN NO. 47/ 0 RVL = 1.00 GRADIENT INTERVAL = -5,00/ 5.00

1,69356 1,72286 1,76418 1,76059 1,75725 1,77542 1,76584 1,8656 1,82341 1,62966 1,82125
.14414 .14264 .14022 .14014 .14275 .14279 .14194 .13928 .13928 .13928 .14076
Q: .24410 .24590 .24737 .24953 .25084 .25388 .25348 .25548 .25443 .25443
.07628 .06473 .05106 .04213 .03760 .02900 .02042 .01141 .00455 00259
CTN .00813 .00792 .00736 .00736 .00381 .00224 .00224 .0007700219
01572 01872 01842 01900 02046 02065 02062 02053 02062
CA .07609 .07413 .07137 .07137 .07214 .07130 .06849 .06849 .06949
27306 27435 27435 27731 27731 27731 27731 28187 28187 28186 28186 28285 28480 28440
14.99040 15.00935 15.00935 15.00035 15.02559 15.03522 15.03540 15.03540 15.03540 15.03540 15.03540
-9.045 -9.045 -9.046 -7.015 -6.022 -4.008 -4.008 -1.997 -1.012 -0009
10.300 10.300 10.300 10.300 10.300 10.300 10.300 10.300 10.300 10.300

TABULATED SOURCE DATA - CFHT96 (LA-11) DATE 10 SEP 73

(RPD053) (15 AUG 73) PARAMETRIC DATA LA-11, CFHT 96, ROCKWELL ORB. 0898 W/NOD. NOSE

GRADIENT INTERVAL = -5.00/ 5.00 8:8 1 Z ş ġ Ş 7.0251 INCHES .0075 UREF = BRREF = SCALE =

6.2902 INCHES .0000 INCHES

10 16 19

4847 4847 4848

21.7886 SR.IN. 3.5611 INCHES

REPERENCE DATA

1.75036 1.75121 1.75551 1.75969 1.76336 1.77191 1.77544 1.77846 1.777894 1.77743 .22819 .22822 .22827 .22822 .00012 65822°. .22190 .22368 .22458 .22713 .39841 .39550 .39650 40124 40434 40611 40607 40564 a. .38571 .00001 .00003 .00103 .00103 .00100 .00100 .00003 .00003 .00003 .00003 .00671 .00462 .00462 .00100 .00100 .00104 .000454 .000454 .000454 .000454 .000454 -.02177 -.02171 -.0214 -.02010 -.02053 -.02132 -.02186 -.01571 -.01761 -.01902 CA .07740 .07495 .07472 .07572 .07573 .07531 .07488 .07494 .43906 .44100 .44662 .44952 .45337 45814 .45981 .45978 .45936 45799 20.08455 20.08965 20.08057 20.10212 20.09799 20.09582 20.09699 72,000-ALPHA 20.10234 20.10345 20.10466 20.09455 -7.085 -6.044 -5.039 -4.030 -5.026 -5.021 -1.008 1.008 5.076 -6.060 10.300 10.300 10.300 10.300 10.300 10.300 10.300 10.300 10.300

LA-11, CPHT 96, ROCKELL CYB. D89B WAND. NOSE

6.2502 INOES .0000 INOES .0000 INOES H II II 4 4 4 7 4 8 7 4 8 E1,7006 20.1N. 5,5611 IND-E5 7,0251 IND-E5

REPERENCE DATA

.34553 .34660 .34679 .34732 .34797 .34353 .34415 .34242 .34290 34359 .54119 .54573 .54909 .54921 .55094 .55637 .55239 .55487 .55508 -.00323 -.01056 -.00680 06726 .06728 .04760 .04760 .03113 .02330 .01743 .01040 .00650 .00469 .00396 .00141 -.00033 -.00168 .01267 .01164 .01068 .00931 -.00646 -.00436 .00569 .00569 .00396 .00104 ..00104 ..00165 -.02713 QJA -, QZ136 -, QZ297 -, QZ297 -, QZ424 -, QZ482 -, QZ611 -, QZ690 -.02715 .07623 .07811 .07776 .07811 CA .08042 .07869 .07796 .07716 " Z 45/0 67679 .64973 .65099 .65217 .65293 9.000. 6.000. 6.000. 6.000. 6.000. 6.000. 6.000. .64573 REN RO. 25.12432 25.12750 -.00205 25.13265 25.12625 25.18100 25.16812 25.15135 ALTA 25.203:23 55.15417 25.14091 -5.030 -4.009 .996 GRADIEM -1.012 -7.017 -6.027 -2.012 -.013 10,300 10.300 10.300 10.300 10.300 10.300 10.300 006.01 10.300 10.300

-10.000

ELEVTR = BOFLAP =

20.000 -10.000

ALGRIA =

2.57513 -10.000 (RPD054) (15 AUG 73) BENTR = PARAVETRIC DATA 25.000 ALMA = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

1,58859 1,59549 1,60391 1,60672 1.60433 1.60348 1.60584 1.61100 1.60149

LA-11, CFHT 96, ROCKWELL ORB. 0698 W/HOD. NOSE

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(RPC055)

PARAMETRIC DATA

E CATA	
REFERENCE	

					ALPHA :		-10.00
	21.7896 SG. IN.		,,	6.2902 INCHES	000 017 - NOG 137	# 4P F	-14.250
* 4.00	3.5611 INCHES	THERE ::	**	.0000 INCHES			
	7.0251 INCHES	2	11	,0000 INCHES			
SCALE =	\$700.						

SKE :	21.7866 34.1N. 3.5611 INCHES 7.0251 INCHES		1 11 BB 62	9 9	.0000 INCHES			◀	AILRON =	-10.000	BDFLAP =	-14.250
			RUN NO.	44/ 0	1	3.00	ADIENT INTER	GRADIENT INTERVAL = -5.002	9°00			
				i	į	3	5	Ę	Շ	д	е	\$
TOW!	META M	Ş		3	5	}	200	01412	.06474	.69400	.50296	1.37978
10.300	-6.925	30.455		.65319	.06181	02220	17800	972 M	.05664	.69831	.50458	1.38397
10.300	-7.937	30.424		.05767	.08147	90600-		90,100	.04834	70037	.50433	1.38872
10.300	-6.952	30.396		.85928	.09060	(USS)	edioc.	9900	13981	70230	.50424	1.39280
10.300	-5.952	30.384		.86068	97670.	-,03286	- 1000.	AEACO.	03138	. 70381	.50367	1.39736
10.300	-4.963	30.368		.86187	.07873	035316	0.000	000	.02240	.70524	.59440	1.39816
10.300	-3.969	30.351		.86346	16870.	16001-	- 0040	52500	91910	. 2723	.50532	1.39957
10.300	-2.969	30.33		.96562	96870.	.03460	0550	77.0	99600	.71013	. 50609	1.40318
10.300	-1.995	30,33649		. 66851	.07812	40000	60000. I	2,00	79200	.71071	.50590	1.40483
10.300	-1.007	30.32		.86890	.07781	usssa	6000	91440	00421	.71291	.50673	1.40688
10,300	015	30.32		.87122	.07742	16660	200000	0037	76110	.71278	.59747	1.45456
10.300	716.	30.333		.87149	20820.	-,0000	01069	9960	00718	.00165	09000*	.00160
	GRADIENT	.00		22,100:	00023	Ottoo	Certon	2000				

LA-11, CPHT 96, ROCKELL ORB. 0698 W/MCD. NOSE

REPENDACE DATA

PARAMETRIC DATA

(RPD056) (15 AUG 73)

-10.000
ELEVTR = BOPLAP =
35,000
ALPHA =
2 INO-ES O INO-ES O INO-ES
5.2902. 0000.
SB. IN. INDES INDES
5.3611 5.3611 7.0251
860 100 100 100 100 100 100 100 100 100 1

RUN NO. 43/ 0 RV/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

1.20129 1.20472 1.20803 1.20936 1.21214 1.21214 1.21346 1.21346 1.21567 1.21567 1.21569 1.21599
68286 68615 68615 68761 69037 69032 69092 69149 69216 69246
Q
.05211 .05491 .054917 .03168 .03168 .03168 .01584 .00799 .00799 .00682 01406
CYN .01484 .01340 .01340 .01024 .00236 .00334 .00231 .00231 .00231 .00231
CRL
04602 04731 04731 04739 04731 04731 04655 09054
.08226 .08226 .08217 .08127 .08178 .08178 .08122 .08027 .08028
00 1.06417 1.07113 1.07000 1.006027 1.06303 1.06374 1.06376 1.06712 1.06712 1.06712
ALPMA 35.35701 35.31706 35.22303 35.23503 35.1022 35.1022 35.1022 35.11722 35.11722 35.11720 35.117506
AFA 267.7- 267.7- 268.2- 269.2- 269.2- 200.1- 259.2- 269.1- 200.1
10.300 10.300 10.300 10.300 10.300 10.300 10.300 10.300 10.300 10.300

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ATE 10 9EP 73	r E		-	ABULA	93 808	CE DATA -	TABULATED SOURCE DATA - CFHT96 (LA-11)	-11)					£ .
					٥-11-ي	FHT 96. P	סכינאבור מפ	LA-11,CFHT 96, ROCKWELL CRB. 0898 W/MCD. NOSE	D. NOSE		(RPE051)	r) (15 AUG	2
		į	•								PARAMETRIC DATA	DATA	
	21.7866 54.1N. 3.5611 1NGES 7.0251 1NGES	7866 54.1N. 5611 1NGES 0251 1NGES	4 2 4 4 5 4 5 4 5 4 5 6 5 6 5 6 5 6 5 6 5 6	H 11 11	6.2902 .0000	6,2902 JND/ES ,0000 JND/ES ,0000 JND/ES				PETA = AILRON =	.000	ELEVTR = BDFLAP =	-30.000
ECALE #	200.		E K		94/ 0	#77#	1.00 GRA	GRADIENT INTERVAL =	AL = -5.00/	00' 8'00			
10.300 10.300 10.300 10.300 10.300 10.300	ALPWA 9.931 15.013 20.146 25.086 36.182 35.356	# FTA	EETA 00111 00151 00256 00362 00362 00362	2 - 4 - 4 - 4 - 4 - 5	00 13435 22757 44059 62795 63680 03700	CA .07214 .06915 .07374 .07865 .07766 .06129	QLM 01651 00229 00007 01007 01651	CRL 00059 00156 00156 00255 00059	CYN001710017400147001620017200155	CO	a. 12039 .24835 .38823 .53530 .66431 .62937	.09432 .13620 .22099 .33756 .46703 .66813	1.27642 1.79708 1.79678 1.58571 1.40276 1.20225
					7-11.	GHT 86, -	NOCOMENT OR	LA-11, CPHT 96, NOCIONELL CR8. 0698 WANCD. NOSE	D. NOSE		(RPD058) PARAMETRIC DATA	(a) (as Aug 73	LG 73)
	E1.7866 96.IN. 5.5611 INCES 7.0251 INCES	BUCE DATA 99.1N. IND-ES IND-ES	4.7 29.63 21	n n n	00000	6.2902 INOES .0000 INOES .0000 INOES				BETA = ATLRON =	-5.000	ELEVIR =	-30,000
			9	ģ	95/ 0	3	1.00 68	GRADIENT INTERVAL =		-5.00/ 5.00			
10.300 10.300 10.300 10.300 10.300 10.300	ALTM. 10.037 15.036 25.036 25.136 35.431 35.431		4.88322 4.89100 5.01133 5.01133 4.88791 4.88791 6.00411			07399 .07404 .07404 .07602 .07603 .08044 .08179	7.5310 01036 00726 00518 00732 00732	.00336 .00338 .00328 .00340 .00340	CTN .00344 .00630 .00630 .00673 .00673	C7 .00.000 .00.000 .00.000 .00.000 .00.000 .00.00	0. .12469 .25560 .39961 .34931 .70154 .04263	.09660 .14532 .22693 .34428 .50342 .69989	1.28807 1.7886 1.76099 1.59554 1.39355 1.20395

(RPDD59) (15 AUG 73)

LA-11, CFHT 96, ROCKWELL ORB. 0698 W/NOD. NOSE

PARAMETRIC DATA	ALPA = 10.000 ELEVTR = -30.000 AILRON = -10.000 BOFLAP = -14.250
	A I L'A
	ŕ
	6.2902 INCHES
	# # # # # # # # # # # # # # # # # # #
REPENENCE DATA	2.7666 59.1M. 30 5.5611 1NO-ES 77.00:53 1NO-ES 7.0075
	SECT :: UREF :: SCALE ::

		RUN ND.	0. 61/0	# 7	1.00 GRAD	RADIENT INTERVAL =	L = -5.00/	2.00			
			i	;	3	Ē		Շ	ሪ	e	\$
ğ	DETA		5	5	5			50000	.10073	.09378	1.07413
10.300	6.919	_	11530	.orsi4	0000			.06946	.10339	.09156	1.09650
10.300	-7.933	•	11460	00570	10000	2,70		71980.	.10274	.09052	1.13489
10.300	-6.932	_	.11677	retu.	50210	7887		66740	.10362	.08914	1.16469
10.300	-5.949	•	117	2000	67610-	10000		.03665	.10620	.08880	1.19589
10.300	7.367	•	.11993	41690.	10.450			03264	.11150	.09164	1.21402
10.300	-3.960	Ψ.	12569	200.	0010			.22367	.11440	71160.	1.24666
10.300	98.	•	.12855	10000		90100		.01361	11304	.08811	1.28297
10.300	-1.875	•	ecezi:	5790.	275.00	22000		100594	.11611	01060.	1.20674
10.300	98.	_	12995	40000	246	000		00143	.11727	.09218	1.27220
10.300	8	_	13140		868.0	- MICH.		00932	.1.688	.09189	1.27198
10.300	CRADIENT	9.97042 .00304	.00167	00000	0036	0007	00083	000630	.00163	.00030	.01393

(RPDD6D) (15 AUG 73)	PARAMETRIC DATA
LA-11, CPHT 96, ROCKELL ORB. D698 W/HOD. NOSE	ATTENDED DATE

		EFERENCE DATA	٤												
# 6 # 6 # 6 # 6 # 6 # 6 # 6 # 6 # 6 # 6	2.5611 3.5611 7.0051 2.007	E1.7866 30.1N. 3.5611 DIOCES 7.0251 INOCES	X 23 88 52 52 53 53 53 53 53 53 53 53 53 53 53 53 53	M H H	6.2902. .0000.	z inoes o inoes o inoes	ខាដា				ALPHA =	15,000	BDFLAP =	-39.000	
			RE IO	Ş	8	7		1.00 GRAD	NEW INTERN	GRADIENT INTERVAL = -5.00/	8.80				
			:	į		į		3	5	3	Շ	4	8	5	
ğ	Y L		ş	5	9	5		5	į		66940	.22888			
10,300	7.0	•	4.91000	Ņ	2	2070.		2000		.00555	10880	23047			_
37.5	7	#	4.96657	i i	2			11080	0.500	66900	46750	.23222			
10.300	1.0	~	4.93535	,		2 6				0.005	.D4245	.22932			_
10.300	7 7	~	4.94130	Ņ	3	2 6		***************************************		74407	.03564	.23179			
10.300	4.0	~	4.95024	Ņ	B 1			9660		58200	CE933	.23588			
10.300	8.7	#	4.95957	K, I	966	20.		60210	2	61200	19550,	.23745			_
10.300	-3.005	-	4.96573	K.	7			95210		.00138	.01215	.23753	13399	1.77270	_
10.300	8.9	-	4.96471	Ķ.	2			**************************************		61000	.93529	.23975			_
10,300	1.0	#	4.96773	Ķ.	7			1010	- 00055	00128	-,00105	.24137			_
10.300	8.	=	4.96246	ĸ,	24	2,00	_	2010	00127	-,00268	6260C'-	.24206			
10.300	1.00	-	4.97369	v g	00110	0005		-,00003	00079	00113	00765	.00128	•	.01274	_

1.55671 1.56520 1.56320 1.56326 1.56326 1.59207 1.5962 1.59926 1.58906 1.58906 1.00072 1.71600 1.71600 1.74739 1.74753 1.74636 1.756201 1.755300 1.755300 1.755300 1.77757 -30.000 -30.000 (RPDD62) (15 AUG 73) (RPDD61) (15 AUE 73) .33663 .33684 .33665 .33665 .33741 .33741 .34180 .34146 .34146 22235 2225 225 ELEVIR = BOFLAP = ELEVTR = PARMETRIC DATA PARAMETRIC DATA .52996 .52840 .53240 .53504 .53716 .53610 .54236 .54260 .54273 .00115 25.000 -10.000 .37165 .37307 .36089 .36291 .36245 .36245 .36935 .39026 .39026 .39026 -10.000 ALPHA = ATLEON = ALPHA = ATLRON = C7 .06794 .05699 .04606 .04606 .03423 .02712 .01180 .00454 .00025 1.00 GRADIENT INTERVAL = -5.00/ 5.30 1.00 GRADIENT INTERVAL # -5.00/ 5.00 .00187 .00024 -.00153 -.05320 CTN .01132 .01063 .00963 .00618 .00536 CN4 .01049 .01015 .00021 .00022 .00022 .00022 .00022 .00022 .00022 .00022 .00022 .00022 .00024 .0002 LA-11, CTHT 96, ROCKELL ORB. DE98 WAND. NOSE LA-11, CFHT 96, ROCKWELL ORB. D698 W/HOD. NOSE .00907 .00907 .00957 .00954 .00954 .00964 .00964 .00964 .00964 .00964 .00964 .00964 .00964 .00964 .00964 .00964 .00950 .00781 .00633 .00492 .00393 .00262 -.0'JO2--.00233 TABULATED SOURCE DATA - CFHT96 (LA-11) -.00407 -.00407 -.00508 -.00518 -.00731 -.00596 -.00596 -.00737 -.00737 6.2902 INO-ES ,2000 INO-ES ,C000 INO-ES 6.2902 INDES .0000 INDES .000U INDES 2 CA .07817 .07646 .07561 .07468 .07590 .07590 .07590 .07590 .07590 .07590 ₹ " O ž Ř 0 .4249 .45214 .43314 .4339 .44389 .44389 .00003 ġ H H H ġ Ş 25.24294 25.24294 25.24394 25.24399 25.24399 25.24399 25.17341 25.17268 20.0352 20.0356 20.0352 20.0352 20.0352 73800.03 ALTHA ED.OTFTT ED.OTFEE ED.OTF 20.0032 21.18712 13.17P 23.1736 REPENDICE DATA REPUBLICE DATA 2.541 INCES 7.023 INCES 7.023 INCES 2.541 INCES 7.021 INCES .0075 -7.031 -6.005 -5.000 .000. 1.009 CANDIENT 9.0g -3.002 -2.016 -1.008 -1.048 -4.048 4.030 4.030 6.019 -1.013 DATE 10 807 73 10.300 10.300 10.300 10.300 10.300 10.300 10.300 10.300 10.300 10.300 00.00 10.300 10.300 10.00 10.00 10.00 10.300 10.300 10.330 SCALE :

-.00294

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TABLLATED SOURCE DATA - CPHT96 (LA-11) DATE 10 SEP 73

LA-11, CFMT 96, ROCKNELL ORB. D698 W/HCD. NOSE

PARAMETRIC DATA

URPDO65) (*15 AUG 73)

PACE

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-30.000 ELEVIR : .000 10.000 BETA = 1.00 GRADIENT INTERVAL = -5.00/ 5.00 6.2902 INDES .0000 INDES .0000 INDES RUN NO. 70/ 0 RWL = H H REPERENCE DATA 5.5611 INO-63 7.0251 INO-65 21.7886 38.1H. LED :

1.20637 1.76636 1.58757 1.40349 1.20419 -.01011 09433 .13774 .22134 .33909 .49061 .69578 .39097 .53632 .68856 .68544 a. 12136 CYN
-.00070
-.00116
-.00126
-.00129
-.00109
-.00001 .00196 .00132 .00132 .00133 .00126 -.01666 -.01270 -.00778 -.00739 -.01665 .07167 .06894 .07349 .07802 .06128 O. .13567 .27528 .44324 .63141 .64186 11.08280 -.00573 -.00573 -.00186 -.00186 -.00186 -.00009 30.176 33.415 @ADID# 14.97 20.113 23.18 10.300 10.300 10.300 10.300 10.300

LA-11, CTHT 96, ROCKELL ORB. DR96 WACD. NOSE

PARAMETRIC DATA

(15 AUC 73)

-30.000 ELEVIR = -5.000 10.000 BETA = AILBON = 6.2902 INDES .0000 INDES .0000 INDES REPUBLICE DATA 21.726 20.114. 5.9811 THOCES 7.0231 THOCES .0075

1.00 GRADIENT INTERVAL = -5.00/ 5.00 RUN NO. 71/0 RVL =

1.32155 1.77441 1.79916 1.40011 1.20296 00.09500 .14051 .22614 .34406 .73369 .73369 .00468 .00713 .00730 .00736 .00732 .00466 .00514 .00514 .00517 .00517 .00507 .00500 -.01536 -.01152 -.00152 -.00562 -.00562 -.01726 CA .07192 .06698 .07735 .07735 .08027 .00017 04 .14005 .25041 .45459 .64430 .1.09676 4.91091 4.90357 .00453 BETA -4.91851 4.99605 -4.878GB 25.175 20.180 35.477 62.0180 A 54.0 15.001 20.113 10.300 10.300 10.300 10.300 10.300

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23
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(RPD067)

PARAMETRIC DATA

-30.000

REFERENCE DATA

	960 = 21.7866 80.1N.	96 .1%.	***	6.2900 INCES	ALPAA = 35.000 ELEVTR = ATLEON = 10.000 BOFLAP =	35.000	ELEVTR = BOFLAP =
• •	3.5611	INCHES	ES 7867 ::	ביישון נונני.			
-	7.0251	INCHES	,	.0000 (NCHES			
# 3 W.W.	5/00.						

RUN NO. 77/ 0 POVIL = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

	3	RUN NO. 77/ 0	¥	1.30 SAM	GRADIENT INTERV	INTEXTAL = -3.00	20.6 /50.6-		
		7	ð	ð	ਵੱ	ફ	Շ	ರ	6
				- 01677	22210	01366	.36655	28009	,67034
		1.14167	2000		C87U	00213	60650	17100.	.67129
	•	1.04492	3500	17071		670.0	15146	BUR42	67310
		1.04796	.07331	27610	10211	0.00	****		
		1 (36) 1	\$ 75.0.	- 315 E	29010.	29905	.04393	.0100	040.
			3.040	01545	.03951	.03713	.03652	.81166	.67415
	-	1.05613	2000	- 0.486	CLINATO	123561	.02874	.61153	67308
		75160.1	SEAVO.	7.3.0	2350	C1384	.02127	.81347	67379
		1.00.1	2007	-1010	S S S S S S S S S S S S S S S S S S S	4700	200.00	.61296	.67260
-1.937	35.34761	1.03222	92970.	-,01360	200	1000	20555	.81324	.67350
		1.05256	Seco.	-,01369	1000	0.00	78100-	.81494	.67390
	• •	1.05364	.07800	166 S	Caron.	COSE	SFOOD .	A1410	.67254
176. 006.01		1.05229	.07827	01597	ocoo.	-,U.K.C.C.	2000		1000
٠		.00016	00012	-,00014	00155		caim.	2	

LA-11, CPHT 96, ROCKAELL ONE, DASE WANCD, NOSE

ACPENDACE DATA

PARAMETRIC DATA

(15 AUS 73)

-30.000	
BORLAP =	
30.000	
ALPHA :	
INOES INOES INOES	
# # L	
	,
21.7446 30.1N. 3.5411 DIOCS 7.0251 DIOCS	

RUN NO. 78/ 0 RWAL = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

		i	7	t	7	ŧ	ž	Շ	4	8	5
ğ	AETA BETA	Š	5	5	,	20.00	C44.0	25.530	.65350	47426	1.3775
	1		200	2	92 (8):-	20010	2000				1
20.01			*****	7446		.01261	.01165	.05773	.65622	.47599	1.36264
10.300	-7.80	2				04110	00000	47640.	26959	.47462	1.36631
10.300	Ť	30.27001	S S	200	2000	50000	75900	.04145	65998	.47432	1.39141
10.300	-5.836	10.ESG37) and	6770.	100574	7,000	.00715	.03316	26659.	.47299	1.39520
10.300	£.7	20.22	1000		9400	72.00	00366	.02567	.66395	.47549	1.39635
10.300	-3.955	20.21.2	POC 180	5,670.		79500	00400	.01861	.66419	.47543	1.39705
10.300	4.67	30.20	2019	500.	4000	276	92200	22210.	.66642	.47660	1.45247
10.300	7.7	30.1672		10570.	1	3520	1,000	.00532	.66640	.47592	1.40445
10.300	-1.00	30.1640	67.10·	201336		82.00	00100	00169	.66925	.47665	1.40407
10.300	- 00	30.10	1919	20.00		00000	-,00256	00059	.66935	.47727	1.40243
10.500	14.	00709	39100 .	61000	5003	-,00146	00165	16900*-	.00155	\$6000.	.00160

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DATE 10 BEP 73 TABULATED SCHRCE DATA - CPNT96 (LA-11)

PAGE 35

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LA-11, CTHT 96, ROCKWELL ORB. D698 W/HCD. HOSE

(RPDD69) (15 AUG 73)

PARAMETRIC DATA

-30.000

NETENDICE DATA

25.000 BEVTR = 10.000 BOFLAP = ALPHA = AILRON = 6.2928 INDES .0000 INDES .0000 INDES 5.5611 INDES 7.0251 INDES .0075

RUN ND. 73/ 0 RV/L = 1.00 GRADIEM INTERVAL = -5.00/ 5.00

		-		.34103 1.57966		-					
				. 53672							
Շ	41070.	26660.	.05031	.04306	.03511	.02610	.02084	.01529	.00646	96100	0000
£	22210	06110.	.01027	90600	79700	.00567	99700	.00313	91100		
				95.60							
7			7476		1000	- CONT.					
				X 26.							
	5	13.2073K	2.2	ES.ETER	23.53	23.20	25.24e45	3.57	23.54107	23.25613	23.2247
į	4	7	4.91	-1.01	7.01	7	8.7	-S.003	8 . 7	-1.0ts	. 8
	ğ	8	0.0 0.0	200.00	0.00 0.00	0.00	9,300	9. X	8	9.80	9.00

LA-11, CTMT 96, ROCKAELL OTB. 0898 WACD. NOSE

(RPB070) (15 AUG 73)

PARAMETRIC DATA	ALPRA = 20,000 BLEVTR = -30,000 AILRON = 10,000 BDFLAP = -14,250
	6.2902 INDES .0000 INDES
REPUBLICE DATA	1407 = 21.7446 St. IN. 3407 E 1407 = 3.541 INOES YNT E 1407 : 7.0251 INOES DOT E 1604.E = .7075

RIM ND. 74/ D RVL = 1.00 GRADIBNT INTERVAL = -5.00/ 5.00

		1	į	t	3	ŧ	ξ	Շ	4	8	5
ğ	NETA .	-	5	, .	8	.01144	\$6600	.07617	.36416	.22714	1.09137
10.300	7.00 1	10.00 m		20.000		90000	96010	.05769	.38126	.21962	1.73604
10.30	7	10.UE		23340		99900	.0100	06970.	.36296	18022	1.74200
10.300	-1.045	20.03		*****	1000	18200	.00652	.04005	.36557	.21979	1.75422
10, 100	90.9	20.01	1636.	7970	92.00	.00627	.00713	.03279	.36786	.21994	1.76354
10.300	13.00	10.01		2446	78700	66500	.00564	.02732	38936	.22074	1.76363
10.300	8.7	20.01639		2010	78700-	.00466	.00452	57610.	.38852	.2:::2	1.77119
10.300	-5.016	20.01439	1000		11200-	00365	.00267	.01287	.38966	.21939	1.776
10.300	-6.019	, ec. 02	4466	07476	67900	.00253	.00110	61700.	.39299	52222	1.76.
10.300	-1.013	10.03		07456	00783	ET 100.	00045	69000	.39315	99222	1.765 (
10.900	50.		7		10700	19000	00196	-,00508	.39175	69022	1.7751
16.100	500.1	200.00°	16000	90000	60000	96000*-	00155	-, 90639	.00003	.00087	.0007

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(RPD071)

PARAMETRIC DATA

	-30.000
	EEVIR:
	15.000
	ALPIA =
	63-CM 2002.
REPERENCE DATA	2. 2401 100-00 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7.

MIN NO. 73/ 0 MAL : 1.00 GRADIENT INTERVAL : -5.00/ 5.00

1.65495 1.69999 1.72276 1.7224 1.7244 1.79414 1.6069 1.6069 1.6069 1.7971
.14319 .14086 .13682 .13770 .13510 .13530 .1369 .13769 .13769
23693 23683 23683 24063 24063 2452 24523 24619 24673 24673 24673
0.000000000000000000000000000000000000
.00764 .00764 .00717 .00717 .00762 .00763 .00763 .00763 .00763 .00763
01000 01107 01107 01105 01106 01106 01106 01106 01106
0.07724 .07724 .07725 .07727 .0896 .0896 .0896 .0896 .0896 .0896 .0896
9 5284. 5088. 5089. 5089. 5089. 5177. 5277. 5277. 5277. 5277. 5277. 5277. 5277.
14.26.77 14.26.28 14.26.28 14.26.28 14.26.29 14.26.29 14.26.29 14.26.29 14.26.29 14.26.29
#F7A # 0.00 # 0.00
10.300 10.300 10.300 10.300 10.300 10.300 10.300 10.300 10.300 10.300 10.300 10.300 10.300 10.300

LA-11, OTHT 96, NODGLELL CHB. DR9B WHCD. NOSE

(RPD072) (15 AUG 73)

PACAETRIC DATA	ALPNA = 10.000 BLEVTR = -30.000 AIURON = 10.000 BOFLAP = -14.290
	6.190k INOES .0000 INOES .0000 INOES
REPUBLICE DATA	E1.7005 20.3N. 2007 E 5.3011 1NOC3 7NV E 7.0051 1NOC3 2007 E

RUN NO. 72/ U NA.L = 1.00 GAMIENT INTERVAL = -5.00/ 5.00

0.0000.
00 94460. 99546. 99590. 99590. 99590. 109191. 109492.
0. 11239 11396 11396 11979 11979 11231 12331 12331 12331
C7 .06973 .05866 .03876 .03876 .03876 .03876 .01361 .05574 .00037
CTM
00. 0.000: 0.000: 0.000: 0.000: 0.000: 0.000: 0.000: 0.000: 0.000: 0.000: 0.000:
207036
20 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
6.95744 6.95755 6.01908 6.0190
A 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
20

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TABALATED BOLNCE DATA - CPITTOG BLA-113) DATE 10 SEF 75

PARAJETRIC DATA

(15 AUS 73)

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LA-11, FART 96, ROCKELL-COS. USSS WHOD, NOSE

PACOCIAL CALL	DETA : .000 BLEVTR : ALLICH : .000 BOYLAP :
	6,250E INDES ,000D INDES ,000D INDES
4	
REPUBLICE DATA	3.5611 100-65 7.0251 100-65 7.0251 100-65
	E CALE

	1.4226 1.74226 1.73273 1.60224 1.70340 1.70340
	0.007.00. 1.4626. 1.8626. 1.1882. 1.1882. 1.18220.
	A 14074 14074 14074 14074 14075 1407
B.	-,00178 -,00274 -,00290 -,00383 -,00448 -,00580 -,00580
3.00	CYN 00120 00132 00132 00134 00121 00121 00000
CALDIDAT INTERVAL = -5.00/ 5.00	0000 00000 00000 00000 00000 00000 00000
1.00 68401	
# 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	2000.
ğ	0 11339 1.0321 1.4473 1.1000 1.1000 1.1000
9	
	5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00
	10.800 10.800 10.800 10.800 10.800 10.800

GEODTA) (15 ALE TS	PARAMETRIC DATA
LA-11, CTHE 96, ROCHARLE OND. DORE WHOD. NOTE	

	8	
	BOTA"	
	-5.000 .000	
-	BETA :	-5.00/ 5.00
		MUN NO. EX'S NAVL = 1.00 GRADIENT DITENAL = -5.00/ 5.00
		8:1
	6.202 INOES .000 INOES .000 INOES	BY 0 MM.
.		9
METERBACE DATA	E1,786 M.IV. 1969 E 3,561 HOCS 1969 E 7,023 HOCS 2969 E ,0075	

1.44990 1.44990 1.60095 1.60095 1.40364 1.19642 01968
8000 11500 1
0. 14440 2563.0 3.0346 3.0346 3.0376 5.0376 5.0377 5.0377
20000. 100504 10050. 10050. 10050. 10050.
CN
9.000 9.800 9.800 9.800 9.000 9.0000
27.0.2777. .07714. .07806. .08155. .08556. .08900.
90 1. 1986 . 2818. 2826. 2007. 2005. 2005.
ETA 4. #5173 -5.01484 -5.01085 -5.01085 -4. #6406
500 50 50 50 50 50 50 50 50 50 50 50 50
000.01 000.00 000.01 000.01 000.01 000.01